NCERT Class XI-XII BIOLOGY Rapid Fire

1,00,000 Exam Pointer Chapter, Topic & Subtopic Wise

<u>Useful for</u>: NEET/AIIMS/CUET (GU/PG)/EAPCET/EAMCET/TSTAMCET/ TGT/PGT/LT/GRADE/NVS/KVS/DSSSB/GIC/GDC/ Assistant Professor and Other Competitive Exam

> Chief Editor A.K. Mahajan Compiled & Edited by YCT Expert Team

Computer Graphics by Balkrishna Tripathi & Vinay Sahu Editorial Office 12, Church Lane Prayagraj-211002 Mob. : 9415650134 Email : yctap12@gmail.com website : www.yctbooks.com

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01.

THE LIVING WORLD

 International code for zoological nomenclatur stands for - ICZN The number and types of organisms present on Eart are collectively known as-Biodiversit; Against the rules of ICBN is- Generic and specifin names should be written starting with small letter Nomenclature is governed by certain universal rules Contrary to the rules of nomenclature is-Biological names can be written in any languag Diversity of kinds of organisms and their relationship is termed as-Systematic ICZN is- International Cod of Zoological Nomenclature In binomial nomenclature of plants-Both genus and species are printed in italic The classification of organisms based on their evolutionary history and establishing their phylogeny on the totality of variour parameters from all fields of studies is called - Biosystematic ICBN is- International Code of Botanica Nomenclatur Biodiversity range is- 1.7-1.8 million The science of giving names to living beings called-Nomenclatur The science of giving names to living beings called-Nomenclatur In binomial nomenclature, the first and second components represent-Genus and specie In binomial nomenclature, the first and second components represent-Genus and specie In ease of mango "Mangifera" is generic name an Indica is - Specific epithe The scientific name does not ensure- Status of threat of extinction of that organism holding The word systematics is derived from-Latin word systema
 The study of different kinds of organisms and their diversities and also the relationship among them referred to as– Name of the author is not written– In binomial nomenclature proposed by Linnaeus every organism has– One scientific/biologica name with two words - a genus and a specie

 Systema Naturae is – Publication of Linnaeus The study of anatomical physiological and ecological information of organisms development of process is basis of - Modern Taxonomic The scientific name of banyan is written as Ficus bengalensis L – Letter L signifies taxonomist Linnaeus Systematics takes into account :– Evolutionary relationship between organisms Biological names are generally in and written in Latin, italics Taxonomy is not component of– Responsiveness In taxonomy the first step is – Identification 	 The word systematics is derived from the
	■ The main objective of plant taxonomy is-
 Datura innoxia belong to the order and family respectively– Polymoniales, Solananceae The process by which anything is grouped into convenient categories based on some easily observable characters– Classification The Indian Botanical Garden and National Botanical Garden are situated in– 	 To study the world's flora, to provide a method for identification & nomenclature is the branch of science dealing with identifications, nomenclature and classification of organisms- First step in taxonomy is-
■ The branch of science dealing with identification,	Identification of the organism
nomenclature and classification of organisms-	■ Founder of binomial nomenclature was-
Taxonomy	■ Scientific nomenclature true for- Naming of
■ First step in taxonomy is- Identification of the	particular organism by the same name
 organisms As we go from species to kingdom in a taxonomic hierarchy, the number of common characteristics– Decreases Any rank of taxonomic hierarchy is used for - Taxon Binomial nomenclature system given by– 	 all over the world Most names in biological nomenclature of living organisms are taken from language- Latin In the binomial system of taxonomy developed during the 18th century by C. Linnaeus, the second word of an organism's biological name represents- Species
Carolus Linnaeus	■ As we go lower from kingdom to species the number
■ Correct scientific name of wheat derived by	of common characteristics goes on-
 binomial nomenclature is- Triticum aestivum Two-word names, the first indicates genus, and other 	■ Lowest category of animal kingdom is- Species
species is called-Binomial nomenclature■Scientific name of Mangowas first described	 Obligate categories or ranks are found in a hierarchical level of classification-
by Carolus Linnaeus– Mangifera indica Linn ■ In a taxonomic hierarchy, genus is interpolated	■ The highest taxon in taxonomic hierarchy is- Kingdom
between– Family and species	A taxon in Linnaeus hierarchy is not– Population
■ In taxonomic hierarchy, cats are placed under the	1.4 SPECIES
genus− Felis A taxonomic category refers to−	■ In biological terminology, a group of similar
a rank or level in a taxonomic hierarchy	organisms are capable of interbreeding and producing fertile offspring- Species
 The ascending or descending arrangement of taxonomic categories is called – Hierarchy The term 'taxon' is used for – any rank of taxonomic hierarchy Books was contributed by Linnaeus – 	 That characters are mainly considered for declaring a new plant species– Floral characters Categories which possesses maximum number of related characters– Species
 By which process anything is grouped into convenient categories based on observable characters - Classification 	 The basic unit upon the systems of classification are based is- Species Amongst all the kingdoms, the only taxon that exists in nature as a biologically cohesive unit is the- Species

• A species consists of a population is– Interbreeding	1.7 ORDER AND CLASS
 Species is considered to be static- A group of individual organisms with fundamental 	Taxonomic categories contains organisms least
similarities is-	similar to one another– Class
■ Indica, <i>tuberosum</i> and <i>leo</i> names represents-	 A group of related families which exhibit a few similar characters is best defined as - Order
Specific epithets	■ In a taxonomic hierarchy, family is interpolated
The less general in characters as compared to	between– Order and genus
genus– Species	Animals are classified into hierarchical groups, the
	largest number of species is found– Class
1.5 GENUS	 'Aves' taxonomically represent a- Class To a subscription of the set of
 Group of closely related species of plants or animals represents - Genus 	 Taxonomic categories includes all the others- Order The name of a plant order ends with- Ales
■ In a taxonomic hierarchy, family is interpolated	■ In order, will you place gorilla− Primata
between- order and genus	 Taxonomic categories includes one or more related
■ Mangifera is a- Genus	orders- Class
Genus is a group of similar and related– Species	Two organisms are present in the same class but not
■ A collection of species bear a close resemblance to one another in the morphological	in the same family. They may belong to same– Order
characters of the floral parts is known as– Genus	 Order polymoniales include-
■ Genus represents- Group of related species	Convolvulaceae, Solanaceae
of plants or animals	Carnivora includes- Canidae, Felidae
■ Linnaeus put similar species into a larger group called the- Genus	• Order polymoniales is based on- Floral character
■ In a taxonomic hierarchy, genus is interprolated	■ Diptera is the order of- Housefly
between– Family and species	 Dicotyledonae is the class of – When appendix and in the case class but not in
■ The taxonomic category below the level of family is-	When organisms are in the same class but not in same family, the taxonomic term is called as— Order
Genus	The category that includes related order is- Class
 Potato, Tobacco, Brinjal, Mango belong to many genera- 3 	■ In taxonomical hierarchy, class is interpolated
1.6 FAMILY	between- Phylum and order
	1.8 PHYLUM
■ The common characteristics between tomato and	House fly belongs to- Phylum - Arthropoda
 potato will be maximum at the level of their- family 'Suffixes' used for units of classification in plants 	■ Two animals belong to the same kingdom but different classes. They may belong to the same-
indicates a taxonomic category of 'family'– Aceae	Phylum
■ The suffix - 'oideae' is used for— Subfamily	■ In case of plants, classes with a few similar
■ Less general in characters as compared to genus-	characters are assigned to a higher category called-
Family	Division
■ The taxonomic category below the level of family is- Genus	Based on the common features, fishes, amphibians, reptiles, birds are included in-
■ The species (man, housefly, mango, wheat, dog, cat,	Chordata
lion, tiger, potato, brinjal, makoi and leopard) given	1.9 HERBARIUM
here belong to different families – 7In taxonomical hierarchy, the category below the	 Taxonomic aids for preservation of plant specimens
In taxonomical hierarchy, the category below the level of order is-	and conservation of plants respectively are-
■ Family and order of <i>Triticum aestivum</i> (wheat) are-	Herbarium, Botanical garden
Poaceae, Poales	■ The taxonomic unit 'Phylum' in the classification of
■ Family - order - class of <i>Musca domestica</i> (housefly) are respectively –	animals is equivalent to hierarchial level in classification of plants– Division
Muscidae-Diptera-Insecta	 Quick referral system in taxonomical studies-
 Family of man (<i>Homo sapiens</i>) is- Wheat belongs to family- Poaceae 	■ Two animals belong to the same kingdom but
■ In a taxonomic hierarchy, family is interpolated	■ I wo animals belong to the same kingdom but different classes. They may belong to the same-
between – Order and genus	Phylum
	-

 The herbarium sheets carry a label providing information about— Botanical name, Collector's name, Date and Place of collection Indian Botanical Garden and the National Botanical Research Institute are located respectively at— Howrah and Lucknow Collection of plants that usually have been dried, pressed and preserved on sheets is called— Herbarium The quick referral system in taxonomic studies is— Herbarium In which of the taxonomical aid, the specimens become a store house or repository for future use— Herbarium Plant preservation centers in which the collected plants are preserved as dry specimens, according to any recognised system of classification is called— Herbarium 	 Zoological parks have collection of– Skeletons of animals, Dry plant specimens, Birds and mammals Children love visiting these places, commonly called as– Zoos 1.12 KEYS AND OTHER TAXONOMICAL AIDS Most names in biological nomenclature of living organisms are taken from language– Latin The places were wild animals are kept in protected environments under human care– Zoological Parks Key is called– Lead Identification of names of species found in an area -Manuals The recorded description contain information taxon is called– Monographs A taxonomical aid used for identification of plants
1.10 BOTANICAL GARDEN AND	and animals based on the similarities and dissimilarities is called– Key
MUSEUM	1.13 MISCELLANEOUS
 Insects are preserved in insect boxes after– Collecting - Killing - Pinning The famous Botanical Garden is– Botanical Garden at Kew, Indian botanical Garden, Howrah, National Botanical Research Institute, Lucknow Plant species in botanical gardens are labeled to indicate– Botanical name and family In museums specimens are preserved in the containers having– National Botanical Research Institute located in– Lucknow Larger animals like birds and mammals are usually stuffed and preserved in– Museum The collection of preserved plants and animals for study and reference is called– Museum Museums are known to preserve– Insects, Larger animals, Skeleton of animals 	 The scientific name of dog is- Canis familiaris 'Suffixes' used for units of classification in plants indicates a taxonomic category of 'family'- Aceae As we go from species to kingdom in a taxonomic hierarchy, the number of common characteristics- Will decrease 'Suffixes' used for units of classification in plants indicates a taxonomic category of 'family'- Aceae 'Suffixes' used for units of classification in plants indicates a taxonomic category of 'family'- Aceae The term 'systematics' refers to - Diversity of kinds of organisms and their relationship Genus represents- Group of closely related species of plants or animals The taxonomic unit 'Phylum' in the classification of animals is equivalent to hierarchical level in classification of plants- Division Botanical gardens and Zoological parks have- Collection of endemic and exotic living species Taxonomic key is one of the taxonomic tools in the identification and classification of plants and animals. It is used in the preparation of -
 Collection of preserved plant and animal specimens 	Monographs, Flora
for study and reference– Museums Collection of living plants for reference– Botanical gardens Botanical gardens and zoological parks have– Collection of endemic and exotic living species Wild animals are kept in protected environment in– Zoological parks The purpose of zoological parks is– To entertain the public,	 All living organisms are linked to one another because– They share common genetic material but to varying degrees In the taxonomic categories, hierarchial arrangement in ascending order is correct in case of animals– Kingdom, Phylum, Class, Order, Family, Genus, Species Family Muscidae belongs to– Housefly Correct written scientific name of Mango which was first described by Carolus Linnaeus–
To learn their food habits and behaviour	Mangifera indica Linn

EXAM POINT				
Defining Properties of Living Organism				
Pheromones are- Used for animal communication	Rajasthan PMT-2009 Punjab MET-2009 UP CPMT-2009, AMU-2002			
The difference between holophytic nutrition and holozoic nutrition is- Holophytic is autotrophic nutrition, while holozoic is ingestion of solid organic food	TS EAMCET-10.08.2021 Shift-I			
The technically complicated feature of all living organisms– Metabolism and Consciousness	AP EAMCET-05.10.2021 Shift-I			
Metabolism, replication and homeostasis are the main characteristics of– Living organisms	AMU-1997			
The type of nutrition where organisms engulf food materials is- Holozoic	Kerala PMT-2009			
During endocytosis– The cell engulfs and internalises materials using its membrane	Karnataka CET-2009			
The living organisms can be unexceptionally distinguished from the non-living things on the basis of their ability for- Interaction with the environment and progressive evolution	AIPMT-2007			
Biological organization starts with– Submicroscopic molecular level	AIPMT-2007			
Many elements are found in living organisms either free or in form of compounds. One of the following is negligible is living organisms– Silicon	JIPMER-2014			
On the basis of nutritionally wild type organism, which does not require any additional growth supplement is known as– Prototroph	CMC Ludhiana-2009 AIPMT-2004			
Ants locate sucrose by– Physical contact with sucrose	KVPY (SA)-2010			
Pheromones when secreted upon the skin surface, its odour generally affects- mutual behaviour of members of a species	JCECE-2002			
Divergence in the living world				
Reason of diversity in living beings is- long term evolutionary change	Manipal-2013 BHU PMT (Screening)-2010			
The first organisms to appear on earth were- chemoheterotrophs	AMU-1997			
The book Micrographia was written by- Robert Hooke	BCECE-2002			
Philosophic Zoologique was written by- Lamarck	BCECE-2003, UP CPMT-2001			
Organisms which obtain energy by the oxidation of reduced inorganic compounds are called— Chemoautotrophs	AIPMT-2002			
Out of 1.7 million species of living organisms known to us, insects contributes to about- 0.7 million species	CMC Vellore-2012			
In vedic times, living organisms were classified into following number of classes-	BCECE-2015			
Morphology categories Taxonomic categ				
The basic unit of classification is- species	J&K CET-2013, JIPMER-2011 BVP-2009,2010			
	Uttarakhand PMT-2009			
	J&K CET-2011 VMMC-2009			
	J&K CET-2008, CG PMT-2007 AIPMT-2003, AIIMS-1990,2000			
	Rajasthan PMT-1996,1997			
The term taxonomy was coined by– A.P. De Candolle	Tripura JEE-2018 J&K CET-2011, BVP-2010			
Taxon is the unit of-Taxonomy	J&K CET-2013 BHU PMT-2002 Haryana PMT-2000			
	AIPMT-1996			
A group of plants or animals with similar traits of any rank is- Taxon	BVP-2012 MGIMS Wardha-2007			
	AIPMT-1992, 1991			
Species is a- Closely related interbreeding population	Manipal-2012, 2011 AFMC-2002			

A taxon is- A taxon	omic group of any ranking	VMMC-2014, CG PMT-2007 DUMET-2006 Rajasthan PMT-2001
		AIPMT-1992,1990
Biological concept of species is mainly based on-	Reproductive isolation	HP CET-2012
		Rajasthan PMT-2008 UP CPMT-2008
Potato and Brinjal differ in this taxon-	Species	AP EAPCET-11.05.2023, Shift-II
Theory and practice of identification, nomencla organisms is called-	ture and classification of Taxonomy	TS EAMCET-30.07.2022 Shift-I
A group of individual organisms with fundamental sin	milarities is called as– Species	AP EAPCET-11.07.2022 Shift-I
The hierarchical arrangement of taxonomic categories Kingdom, phylum, class, or		NEET-2022 AMU-2012
Taxon 'tigris' represents-	Species	AP EAMCET-03.09.2021 Shift-II
Among all the kingdoms, the only taxon that exists in cohesive unit is the-	nature as a biologically Species	AP EAMCET-03.09.2021 Shift-II
In the hierarchy of classification, the lowest obligato classification is-	ry category in five kingdom Species	TS EAMCET-29.09.2020 Shift-II
Highest unit of classification-	Kingdom	MHT CET 5.10.2020 Shift-I CG PMT-2006
The Study of external features is called as-	Morphology	AP EAMCET-24.09.2020 Shift-II
	Morphological Characters	AIIMS-2017
The smallest unit of classification is-	Species	VMMC-2011, JIPMER-1997
Branch of biology dealing with study of organism in		DUMET-2007
Scientific study of diversity of organisms and their ev	olutionary relationships is– Systematics	J&K CET-2011
The term phylum was given by-	Ernst Haeckel	MGIMS Wardha-2013 AIPMT-1992
Interbreeding population of animals is called-	Species	MGIMS Wardha-2003
Ambulacral grooves are absent in the living forms of	the class– Ophiuroidea	Punjab MET-1999
Phenetic classification is based, on– Observable character	istics of existing organisms	Manipal-2012
A group of related genera, with still less number of the genus and species constitutes-	similarities as compared to Family	DUMET-2010
The total number of species, that are known and describe	ribed range between– 1.7 - 1.8 million	DUMET-2010
Taxa differs from taxon due to this being-	The plural of taxon	DUMET-2010
The number of species classified in Species Plantarur	*	DUMET-2008
The class Amphineura belongs to-	Chiton	Uttarakhand PMT-2004
Class is the category of taxonomy which includes rela		J&K CET-2014
The concept of "biological species" was proposed by-		AMU -2000
The taxonomist described classification of plant king plants"-		MGIMS Wardha-2004
Cladistics can be best defined as–	iiutennison	AMU-2006
Method of classification that attemp		
If a botanist want to study nomenclature of a similar s	· ·	JIPMER-2001
study-	Isotype	1017 CIERT 444#
The word species was coined by–	John Ray	J&K CET-2015
The set of 'species' names belong to same genus-	Histolytica and coli	JIPMER-1996 Haryana PMT-1999
A species is a collection of demes. The deme is a grou	-	BHU PMT (Screening)-2011
Population	with a common gene pool	

Haryana PMT-200	Taxonomic hierarchy refers to-
DUMET-2009,201	Stepwise arrangement of all categories for classification of plants and
	animal
Haryana PMT-200	Principles and rules of classification are studied under– Taxonomy
CG PMT-2010, BCECE-200 AP EAMCET-199	The taxonomical ranks contain organisms least similar to one another– Kingdom
CMC Ludhiana -201	Taxonomy is the branch of science which deals with-
	Identification, Nomenclature and Classification
CMC Ludhiana-201	Polytypic species are those which– Contains two or more sub-species
AIPMT-200	It is true for individuals of same species– Interbreeding
AIPMT-200	Phenetic classification of organisms is based on-
	Observable characteristics of existing organisms
JIPMER-201	In Whittaker's system of classification, prokaryotes belong to the kingdom– Monera
AMU-199	A species with several subspecies is called a- Polytypic species
AIPMT-200	In which kingdom would you classify the archaea and nitrogen-fixing organism,
	if the five-kingdom system of classification is used– Monera
AIPMT-200	In five kingdom system, the main basis of classification is- Mode of nutrition
JIPMER-200	Species can be identified on the basis of- Reproductive isolation
AIIMS-201	The taxon which includes related species is- Genus
AIPMT-198	Static concept of species was put forward by– Carolus Linnaeus
CG PMT-200	A species defined as "the group of actually or potentially inter-breeding natural
	population producing fertile offspring and reproductive isolated from other groups" The above statement is given by–
BCECE-201	The highest in the hierarchy of taxonomic category– Kingdom
Karnataka CET-201	The taxonomic term may be suggested for any rank in the classification– Taxon
AMU-201	The highest number of species in the world is represented by Fungi
J&K CET-201	Humans belong to the family– Hominidae
BCECE-201	The biological definition of a species depends on–
	Reproductive isolation of two groups of organisms
J&K CET-201	The framework system of classification in which various taxonomic categories
	are arranged in order of logical sequence is called– Hierarchy
NEET (Karnataka)-201	The organization publishes the Red Data Book is-
NEET (Karnataka)-201	The common characteristics between tomato and potato will be maximum at the level of their–
AIPMT-199	Practical purpose of taxonomy or classification–
	Facilitate the identification of unknown species
BHU PMT (Screening)-201	The less general in characters as compared to genus– Species
AIPMT-200	
Karnataka CET-200	The only taxonomic category that has a real existence– Species
AMU-200	The concept of genus was proposed by– Tournefort
BVP-200	The type specimen used by the author in the original publication is known as- Holotype
	Taxonomical Aids
AP EAPCET-11.05.2023, Shift-	The taxonomic hierarchy contains organisms belonging to the same class but not
	to the same family is- Order
AP EAMCET-25.09.2020 Shift-I Kerala PMT-201	The taxonomical aid used for identification of organisms based both similarities and differences is-
NEET (Odisha)-201	The contrasting characteristics generally in a pair used for identification of animals in Taxonomic Key are referred to as- Couplet
JIPMER-201	Taxonomic key is one of the taxonomic tools in the identification and classification of plants and animals. It is used in the preparation of–
• A =	Monographs and Flora
J&K CET-201	Scientific names of plants are based on principles criteria agreed by and are
	given in– ICBN

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In Binomial nomenclature, the name of the author— It is written in an abbreviated form The scientific name of Mango which was first described by Carolus Linnaeus— Mangifera indica Linn. Tautonym is— Same name for genus and species The scientific or botanical name of Asafoetida (Hing) is— Ferula asafoetida Universal rules of nomenclature is wrong regarding— Biological names are generally in Greek and written in italics The scientific name of Asian tiger mosquito— Aedes albopictus Scientific name of sunflower is— Helianthus annuus The zoological name of North Indian hare is— Lepus nigricollis A social foresting species is— Leucaena leucocephala Botanical name of Chili is— Capsicum annum The botanical name of cauliflower is— Brassica oleracea var. botrytis In zoological nomenclature the sub-species is represented by— Trinomen Scientific name of king cobra is— Ophiophagus hannah Zoological name of common Indian krait is— Bungarus caeruleus The generic epithet for the species epithet 'Santalinus' is— Pterocarpus Indian rose wood tree is a common name of— Dalbergia sissoo One of the recently introduced new crop of oil seed in the deserts of India is Jojoba . The correct botanical name of this plant is— Simmondsia chinensis Ragi is— Eleusine coracana Botanical name of 'chana' is— Cicer arietinum Thalamiflorae, Calyciflorae and Disciflorae are series of— Polypetalae The botanical name of soyabean is— Glycine max Systema Naturae was written by— Linnaeus Botanical name of arhu (peach) is— Prunus persica The classification of organisms based on their evolutionary history and establishing their phylogeny on the totality of various parameters from all fields	AP EAMCET-25.09.2020 Shift-II NEET-2019 CMC Ludhiana-2012 Haryana PMT-2003 MGIMS Wardha-2013 MGIMS Wardha-2013 WB JEE-2009 WB JEE-2009 UP CPMT-2004 Punjab MET-1999 Rajasthan PMT-1996 AMU -2000 AP EAMCET-2001 AMU-1999, JIPMER-1997
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The classification of organisms based on their evolutionary history and establishing their phylogeny on the totality of various parameters from all fields	Uttarakhand PMT-2006
of studies– Biosystematics	AIPMT-2003
The correct scientific name of wheat derived by binominal nomenclature is-	АПМS-2016
Triticum aestivum The term "New Systematics" was introduced by– Julian Huxley	AIPMT-1988
When the specific epithet exactly repeats, generic name. It is called as- Tautonym	Punjab MET-2007
Who gave the nomenclature according to which humans are called Homo	BCECE-2015
sapiens-	
Binomial nomenclature means-	AMU-2014
Two word names, the first indicates genus, and other species	
Oryza sativa is the binomial name of the rice plant, the sativa stands for- Specific epithet	WB JEE-2008
Nomenclature is governed by certain universal rules. The contrary to the rules of	NEET-2016 Phase-l
nomenclature is- Biological names can be written in any language	
The scientific name of Kashmiri stag is-Cervus elaphus hanglu	AP EAMCET-2010
The correct method of showing scientific name of coconut palm derived by binomial nomenclature is-	Karnataka CET-2012
The scientific name of zebu is– Bos indicus	Karnataka CET-2004
Predictive generalisation or repeatable experimentation is not based on–	UP CPMT-2011
Hypothesis	
In biosystematics, the basis of classification is- Evolutionary history considering various parameters from different fields of studies	

02.

BIOLOGICAL CLASSIFICATION

2.1 CLASSIFICATION	Cyanobacteria are- Photosynthetic prokaryotes
■ The most common method of reproduction in	■ Bacteria reproduces by– Fission ,
bacteria– Binary fission	Asexual reproduction (spore formation),
■ The vast majority of bacteria are- Heterotrophs	Sexual reproduction (DNA transfer)
Archaebacteria differ from other bacteria in having	■ Harsh habitat found in- Archaebacteria
different– Cell wall structure	 Bacteria found in hot springs are—
■ Aristotle divided animals into two groups on the	Thermoacidophiles
basis of- Presence and absence of red blood	The pigment present in cyanobacteria–
 Contagium vivum fluidum was proposed by- 	Chlorophyll a
M. W. Beijerinck	Colonies of Eubacteria are surrounded by–
The five kingdom classification was proposed by-	Gelatinous sheath
R. H. Whittaker	Most abundant in nature bacteria are-
 Mycoplasmas are classified under kingdoms of- 	Heterotrophic bacteria
Monera	Rod shaped bacterium is called Bacillus
■ In five-kingdom classification system, the kingdom	 Majority of heterotrophic bacteria are–
that includes the blue-green algae, nitrogen-fixing	Decomposers
bacteria and methanogenic archaebacteria is-	Sole member of kingdom monera are- Bacteria
Monera	Which bacteria oxidise various inorganic substances such as nimited minimum and emphasized and use the
■ Two classification system was a kingdom system of	such as nitrates, nitrites and ammonia and use the released energy for their ATP production–
classification proposed by - Linnaeus	Chemosynthetic autotrophs
■ The characters served as the criteria for five bingdom system of classification as used by B II	 Which types of bacteria play a great role in recycling
kingdom system of classification as used by R.H. Whittaker– Cell structure & thallus organisation,	nutrients- Chemosynthetic
Mode of nutrition and reproduction,	autotrophic bacteria
Phylogenetic relationships	■ Bacteria whose cell has only a curve/comma is—
■ In Whittaker's five kingdom system of	Vibrio
classification, eukaryotes are distributed among-	 Cyanobacteria are called blue green algae because-
Four kingdoms	They have chlorophyll pigment
■ According to Whittaker, basis of classification	The conditions which would be favoured by
is/are- Cell structure, Mode of reproduction,	thermoacidophiles are- Hot and sulphur spring
Phylogenetic relationship and nutrition	■ Most abundant microorganisms are- Bacteria
• Extensive metabolic diversity shows- Bacteria	 Which of the following are caused by bacteria-
Whittaker's classification is not mentioned—	Cholera, Typhoid, Tetanus
Virus, Viroids, Lichens	■ Which bacteria would function best in hot
• Four kingdom system of classification was proposed	temperatures (45-60 [°] C)– Thermoacidophiles
by- Copeland	• Specialized cells for fixing atmospheric nitrogen in
■ Two Kingdom system of classification was	Nostoc and Anabaena are- Heterocyst
developed by – Linnaeus	Currently bacteria are included in- Monera
■ Cell wall of fungi is made up of- Chitin	 During unfavourable conditions, bacteria produce-
■ Whittaker is famous for –	Spores
Five kingdom classification	The organisms that completely lack a cell wall-
■ Which characteristic placed the fungi in a separate kingdom	Mycoplasma
kingdom- Cell wall composition	 Archaebacteria can survive in extreme conditions because a false
■ Methanogens are present in the- Gut of cow	because of the- Rigid cell wall

■ Characterised by the presence of a rigid cell wall are- Eubacteria	 Diatomaceous earth is the deposition of cell wall in their habitat by diatoms takes over-
■ The smallest organisms which cause diseases among	Billions of years
plants are- Mycoplasma	■ The spores of slime mould are dispersed by-
 Heterocysts, specialised for nitrogen fixation, occur 	Air currents
in certain- Blue-green algae (Anabaena)	■ Protists include- Chrysophytes, euglenoids
■ Temperature tolerance of archaebacteria is due to-	and dinoflagellates
Cell wall structure	• Which organism behaves like plants in the presence
■ Name the organisms which do not derive energy	of light and absence of organic food, but in reverse
directly or indirectly from sun–	conditions behaves like animals-
 Chemosynthetic bacteria PPLO is- Mycoplasma 	Euglena
U I	■ Euglena belongs to which of the following
2.2 PROTISTA	kingdom– Protista
• Protist used for the construction of sound proof	 The most notorious sporozoan, Plasmodium, is responsible for causing- Malaria
rooms is– Diatoms	The cell walls form two thin overlapping shells in
 Chlamydomonas and Chlorella are now included 	which group of organisms such that they fit
under– Protista (Green algae)	together– Chrysophytes
Naked cytoplasm, mutinucleated and saprophytic are the characteristics of- Slime moulds	Red tide is- Colouration of water due to rapid
 All eukaryotic unicellular organisms belong to- 	multiplication of red dinoflagellates
Protista	 Unlike other algae, diatoms do not readily decay due
■ The multinucleate slimy mass of protoplasm	to– Siliceous wall
forms the body of slime moulds is called–	■ Diatoms belong to- Chrysophytes
Plasmodium	■ In which of the following kingdoms some members
 Combinations of characters is true for slime moulds- 	have cell wall and some are without cell wall-
Saprophytic, Plasmodium without	Protista
walls, spores dispersed by air currents	 During unfavourable conditions, slime moulds-
■ is a flagellated protozoan that causes the	From fruiting bodies bearing spores at their tips
disease Trypanosoma gambiense,	 Organisms were never included in protista–
sleeping sickness	Mosses
• Causal organisms of malaria belong to the groups of	Cell wall of diatoms are composed with– Silica
protozoan protists is- Sporozoans	 Decomposer protists are— A directe callete subject former and tide
•	 A dinoflagellate which forms red tide–
 Kingdom, has no well defined boundaries– Protista 	Gonyaulax In Dinoflagellates, the two flagella are—
 Organism have been placed under Kingdom 	In Dinoflagellates, the two flagella are— One transverse and the other longitudinal
Protista– Chrysophytes & dinoflagellates,	 A protein rich layer which makes the body of
Euglenoids, Slime moulds & protozoans	euglenoids flexible is called– Pellicle
 Members of Kingdom Protista are primarily- 	During unfavourable conditions, the plasmodium
Aquatic	differentiates to form fruiting bodies bearing spores
■ The Kingdom Protista forms a link with Kingdom–	at their tips. This group is- Slime moulds
Plantae, Fungi, Animalia	■ The photosynthetic protists are—
■ Chief producers in oceans are- Diatoms	Euglenoids, Diatoms and Dinoflagellates
■ Red tides are caused by- Dinoflagellates	Protista contains- Amoeba, Paramoecium
■ Most of them have two flagella; one lies	and Dinoflagellates
longitudinally and the other transversely in a furrow	The marine organisms responsible for killing fishes
between the wall plates. Here we are talking about–	by producing toxins belong to the kingdom of
Gonyaulax group	Whittaker– Protista

2.3 FUNGI	 Fungi lacking crosswalls in the mycelium belong to class- Phycomycetes
 Morels and Agaricus have edible fruiting bodies and 	■ The wonder drug, penicillin is extracted from
belong to their respective class as- Ascomycetes and	Penicillium that belongs to-
Basidimycetes	
■ Neurospora and Claviceps differ from Mucor and	
Albugo in- Presence of cross walls in their hyphae	■ A common character found in a ascomycetes
 Alternaria and Colletotrichum commonly reproduced 	member, deuteromycetes member and
by- Asexual Spores (Conidia)	basidiomycetes member studied by you is-
An association between roots of higher plants and	Branched, septate mycelium
fungi is– Mycorrhiza	 Coenocytic hyphae is found in-
■ The origin of asexual spore and sexual spores	Rhizopus, Mucor, Albugo
produced in members of ascomycetes respectively-	The members of litter decomposers are—
Exogenous, Endogenous	
■ With respect to the fungal sexual cycle, the correct	Fungi differ from algae in being mostly-
sequence of events- Plasmogamy,	Heterotrophic
karyogamy and meiosis	■ Protists survive in- Aquatic regions
■ The fungi growing on dung are called-Coprophilous	■ An edible fungus is- Morels
Absence of sexual reproduction—	■ Truffles are the member of class- Ascomycetes
Deuteromycetes(Imperfect fungi)	 Bracket fungi (Polyporus) belongs to the class-
■ Important Fungus for making bread is –	Basidiomycetes
Saccharomyces	■ Fruiting body formation during sexual reproduction
Extensively used in biochemical and genetic work–	is observed in-
Neurospora (Ascomycetes)	Ascomycetes and Basidiomycetes
■ Yeast belongs to- Ascomycetes	■ Group of fungi lack sexual reproduction—
 Fungi is a parasite on mustard plant and causes the 	Deuteromycetes
disease white rust of crucifers– Albugo candida	Asexual spore in fungi is-
■ Fusion of two motile gametes which are dissimilar in	Comprises of animal like profists— Protozoans
size is termed as– Anisogamy	
■ Fusion between morphologically alike gametes is	2.4 KINGDUWITLANTAL AND
referred to as- Isogamy	
■ Fusion of two gametes, are dissimilar in size is	- The smallest living calls known without a definite
termed as- Oogamy, Anisogamy	The smallest living cells, known without a definite cell wall, pathogenic to plants as well as animals and
Respect to the fungal sexual cycle, the correct	can survive without oxygen– Mycoplasma
sequence of events is-	 Archaebacteria differ from eubacteria in-
Plasmogamy, Karyogamy and meiosis	
■ Eukaryotic achlorophyllous and heterotrophic	
organisms are grouped under kingdoms– Fungi	Having two types of nuclei
	flaving two types of nuclei
Coenocytic mycelium is- Multinucleate, aseptate	■is not a plant like protist- Slime mould
Coenocytic mycelium is- Multinucleate, aseptate	 Inaving two types of nuclei is not a plant like protist- Slime mould Members of Phycomycetes are found in-
 Coenocytic mycelium is- Multinucleate, aseptate Main component of the cell wall of fungi is- Chitin 	 Inaving two types of nuclei is not a plant like protist- Slime mould Members of Phycomycetes are found in- Aquatic habitats, On decaying wood,
 Coenocytic mycelium is- Multinucleate, aseptate Main component of the cell wall of fungi is- Chitin Fungi shows asexual reproduction by all of the kinds of spores except- Oospores 	 Inaving two types of nuclei is not a plant like protist- Slime mould Members of Phycomycetes are found in- Aquatic habitats, On decaying wood, Moist and damp places,
 Coenocytic mycelium is- Multinucleate, aseptate Main component of the cell wall of fungi is- Chitin Fungi shows asexual reproduction by all of the kinds of spores except- Oospores 	 Inaving two types of nuclei is not a plant like protist- Slime mould Members of Phycomycetes are found in- Aquatic habitats, On decaying wood, Moist and damp places, As obligate parasites on plants
 Coenocytic mycelium is- Multinucleate, aseptate Main component of the cell wall of fungi is- Chitin Fungi shows asexual reproduction by all of the kinds of spores except- Oospores Sexual reproduction in fungi occurs by all of the except- Zoospores 	 Inaving two types of nuclei is not a plant like protist- Slime mould Members of Phycomycetes are found in- Aquatic habitats, On decaying wood, Moist and damp places, As obligate parasites on plants An association between roots of higher plants and
 Coenocytic mycelium is- Multinucleate, aseptate Main component of the cell wall of fungi is- Chitim Fungi shows asexual reproduction by all of the kinds of spores except- Oospores Sexual reproduction in fungi occurs by all of the except- Zoospores Dikaryophase is a specific characteristic of- 	 Inaving two types of nuclei Inaving two types of nuclei Inaving two types of nuclei Slime mould Members of Phycomycetes are found in– Aquatic habitats, On decaying wood, Moist and damp places, As obligate parasites on plants An association between roots of higher plants and fungi is called– Mycorrhiza
 Coenocytic mycelium is- Multinucleate, aseptate Main component of the cell wall of fungi is- Chitin Fungi shows asexual reproduction by all of the kinds of spores except- Oospores Sexual reproduction in fungi occurs by all of the except- Zoospores Dikaryophase is a specific characteristic of- Ascomycetes and Basidiomycetes 	 Inaving two types of nuclei is not a plant like protist- Slime mould Members of Phycomycetes are found in- Aquatic habitats, On decaying wood, Moist and damp places, As obligate parasites on plants An association between roots of higher plants and fungi is called- When the two haploid cells do not fuse immediately,
 Coenocytic mycelium is- Multinucleate, aseptate Main component of the cell wall of fungi is- Chitim Fungi shows asexual reproduction by all of the kinds of spores except- Oospores Sexual reproduction in fungi occurs by all of the except- Zoospores Dikaryophase is a specific characteristic of- 	 Inaving two types of nuclei is not a plant like protist- Slime mould Members of Phycomycetes are found in- Aquatic habitats, On decaying wood, Moist and damp places, As obligate parasites on plants An association between roots of higher plants and fungi is called- When the two haploid cells do not fuse immediately, it formed - A dikaryon

Insectivorous plants is—	 Crystallized and isolated viruses for the first time-
Venus fly trap bladderwort	WM Stanley
■ Kingdom Plantae includes- Algae and bryophytes,	■ Viruses are essentially made up of-
Pteridophytes and gymnosperms, angiosperms	Proteins and nucleic acid
Character of plants only– Cellulosic cell wall	 Lichens are indicators of pollution because-
■ The major difference between plant cell and an	They don't grow in polluted regions
animal cell– Cell wall	 Viroids differ from viruses in being-
• The phenomenon of alternation of generation is	Naked RNA molecules only
found in- Kingdom Plantae	Neither prokaryotes nor eukaryotes among– Virus
■ Life cycle of plants has two distinct phases namely–	■ Viral genome is- Either DNA or RNA
Diploid sporophytic and	 Acellular organisms called–
haploid gametophytic phase	Viruses and viroids
 Insectivorous plants examples— 	Prepare food in lichens– Phycobion
Bladderwort, Venus fly trap	Potato Spindle Tuber disease is caused due to-
 Kingdom Animalia is characterized by- 	Viroid
Multicellular, eukaryotic and heterotrophic	The most notable disease(s) caused by prions is/are- Pauring spanning of an area belong the
 Kingdom Animalia is– 	Bovine spongiform encephalopathy, Mad cow disease in cattle,
Their mode of nutrition is holozoic	Cr–Jacob disease (CJD) in humans
2.5 VIRUS, VIROIDS AND	There exists a close relationship between alga and
	fungus within a lichen. The fungus–
LICHENS	Provides protection, Anchorage and absorption
■ Prions are- Proteinaceous infectious particle	for the algae
 It protects the nucleic acid from ribonuclease enzyme 	-
in tobacco mosaic virus (TMV) - Capsomeres	2.6 MISCELLANEOUS
 Prions have only– Protein coat and no nucleic acid 	■ Infectious agents which posses low molecular weight
 Extreme saline conditions found in- 	genetic material lacks- Peplomers
Archaebacteria	■ Smallest living cells are- Pathogenic both to plants
■ The pair that consists of viral diseases is-	and animals
Mumps & small pox, Herpes & influenza	Phylogenetic classification systems- Are based on
■ Viruses that infect bacterium are known as-	evolutionary relationship
Bacteriophages	• are important decomposers that cause
■ Virus could be crystallized and crystals consist	decay and decomposition of dead bodies of plants
largely of proteins. This was shown by-	and animals– Saprophytic bacteria The pair that consists of plant or animal bacterial
W. M. Stanley	 The pair that consists of plant or animal bacterial diseases– Citrus canker and tetanus
■ Viruses are – Obligative parasite	 All eukaryotic unicellular organisms belong to –
■ Those viruses infect plants have which type of	Protista
genetic material– Single stranded RNA	The five kingdom classification was proposed by-
■ Viruses that infect animals have which type of	R. H. Whittaker
genetic material- Either single/double stranded	 Organisms living in salty areas are called as-
RNA or double stranded DNA	Halophiles
 Genetic material of bacteriophage- 	■ Naked cytoplasm, multinucleated and saprophytic
Double stranded DNA	are the characteristics of- Slime moulds
■ Viroid was discovered by- T. O. Diener	■ A dikaryon is formed when– The two haploid
■ The fungal portion in Lichens is known as-	cells do not fuse immediately
Mycobiont	 Members of phycomycetes are found in-
■ Protein coat of virus is called- capsid	Aquatic habitats, On decaying wood,
■ In TMV, capsomeres are arranged in–	Moist and damp places,
Helical manner	As obligate parasites on plants

EXAM POINT

Categorization of Organisms and Kingdom	System
The five-kingdom classification was suggested by– Whittaker	UPCPMT-2011, 2010 J&K CET-2010 / AFMC-2009 AIPMT-2002 / BVP-2001 / AIIMS- 1994
In Whittaker's system of classification, prokaryotes belong to the kingdom of- Monera	J &K CET-2009, 2008 JIPMER-2008 MGIM Wardha-2008 BHU PMT (Screening)-2007
Bacteria that have specialized cell wall and plasma membrane structures to live and withstand the extreme environmental conditions- Archaebacteria	AP EAPCET-22.05.2023, Shift-II
Organism is multicellular– Bacillus	TS EAMCET-31.07.2022 Shift-I
The number of cohorts in calyciflorae and heteromerae of Bentham and Hooker classification respectively are- 5 and 3	TS EAMCET-30.07.2022 Shift-I
Two animals belong to the same kingdom but different classes. They may belong to the same-	AP EAPCET-07.09.2021 Shift-I
Identification and arrangement of organisms on the basis of their cytological characteristics is called - Biosystematics	AP EAPCET-07.09.2021 Shift-I
Engler and Prantl published a phylogenetic system in the monograph– Die Naturlichen Pflanzen Familien	AP EAMCET-2021, Shift-I CMC Vellore-2008
If the student wants to study the development of zygote, internal structure and function of various pairs to assign the organism to a particular phylum, the student takes the help of following branches–	AP EAMCET-03.09.2021 Shift-I
Development Biology, Anatomy, Physiology and Taxonomy	
Multicellular heterotrophs are placed in how many kingdoms by R.H. Whittaker-2	MHT CET-06.10.2020 Shift-I
The study of different kinds of organisms, their diversities and relationship among them is studies in-	TS EAMCET-29.09.2020 Shift-II
The sexual system of classification is proposed by– Carolus Van Linnaeus	AP EAMCET-24.09.2020 Shift-II UPCPMT-2012
The third kingdom Protista is suggested by– Haeckel	MHT CET-08.10.2020 Shift-I
Mangifera indica, Solanum tuberosum (potato) and Panthera leo (lion) is regarding- Mango belongs to Anacardiaceae, Potato belongs to Solanacea and Lion belongs to family Felidae	AP EAMCET-25.09.2020 Shift-I
This pairs was excluded from Whittaker's five kingdom classification– Viruses and lichens	KVPY SB and SX-2019
Natural system of classification of plant kingdom was proposed by– Bentham and Hooker	Tripura JEE-2018 VMMC-2013
New Systematics introduced by Sir Julian Huxley is also called as– Biosystematics	Kerala PMT-2008
It is not a eukaryotic organism- Anabaena	Assam CEE-2014
'Genera Plantarum' was written by– Linnaeus	AIIMS-1994
The Phylogenetic System of classification was put forth by– Adolf Engler and Karl Prantl	VMMC-2013 Kerala PMT-2009
Five kingdom system of classification suggested by R.H. Whittaker is not based on- Presence or absence of a well defined nucleus	AIPMT-2014
The ascending order to Linnaean hierarchy is- Species - genus - family - order - class - phylum - kingdom	Karnataka CET-2011
An important criterion for modern day classification is– Anatomical and physiological traits	AIPMT-1991
Systema Naturae was written by–	JIPMER-2008 DUMET-2008
Phylogenetic system of classification includes- Evolutionary trends	AIIMS-1995, 2014
In five kingdom system of classification of RH Whittaker, how many kingdoms contain eukaryotes– Four kingdoms	Punjab MET-2008
It is not true about prokaryotes– DNA is complexed with histones	DUMET-2006
Engulfing of food either in solid or liquid is called– Holozoic nutrition	J&K CET-2005

The book Genera Plantarum was written by-	Bentham and Hooker	BVP-2008
A virus differs from a bacterium as it contains-		J&K CET-2011
DNA or RNA as genetic m		
The Kingdoms-Monera, Protista, Fungi, Plantae and A on the basis of- Type of nutrition, Type of cell a	and Type of reproduction	Haryana PMT-2000
As per Whittaker's classification, an organism p structure, multicellular organisation, with a cell wa	Il and nuclear membrane	Kerala PMT-2014
showing heterotrophic nutrition can be placed under th		
In the five kingdom system of classification, which sin following can include blue-green algae, nitrogen-fixing methanogenic archaebacteria–		Punjab MET-2010
Phylogenetic system of classification is based on– E		AIPMT-2009
Number of criteria used in classifying organisms in fiv		AP EAMCET-2011
Phylogenetic relationship cannot determine by–	Morphology	AP EAMCET-2011
In classification of Carolus Linnaeus, which was not in		UP CPMT-2014
	Family and phylum	
Prokaryotic genetic system has-	DNA and no Histone	UPCPMT-2002
Plant cell is differ from animal cell because of- The presence of cell wall and	d chlorophyll in plant cell	MGIMS Wardha-2003
Phylogenetic classification is one which is based on-		J&K CET-2014
	mon evolutionary descent	AFMC-2000
Evolutionary history of an organisms is known as-	Phylogeny	Manipal-2012
Which one is a prokaryote–	Streptococcus	Manipal-2011
The method of classification, called cladistics, is based The basic unit of classification of plants and animals is	, i i i i i i i i i i i i i i i i i i i	Manipal-2004 Uttarakhand-2005
The basic unit of classification of plants and animals is	- Species	BHU PMT-2001
Two kingdoms constantly figured in all biological clas	sifications are– Plantae and Animalia	J&K CET-2008
Phylogenetic system of classification was supported by	– John Hutchinson	Manipal-2000 , JIPMER-1998
Classification of organisms based on evolutionary as w is called-		DUMET-2010
Scala naturae was written by-	Aristotle	DUMET-2008
On the basis of body organization, animals are grouped	l as– Protozoa and Metazoa	CG PMT-2007
Binomial nomenclature indicates-	Genus and species	Uttarakhand-2005
Hutchinson system of classification is-	Phylogenetic	Uttarakhand-2005
	somes and cell organelles	Haryana PMT-1999
In five-kingdom classification, Euglena is placed in-	Protista	Rajasthan PMT-2011
In five kingdom classification of Whittaker, eukaryotes	s were assigned to– 4 of 5 kingdoms	HP CET-2012 AMU-2009 Uttarakhand PMT-2004
In the classification of Whittaker the kingdom Monera	include– acteria and cyanobacteria	Rajasthan PMT-2000
The kingdoms-Monera, Protista, Fungi, Plantae and a on the basis of- Type of nutrition, Type of cell a	Animalia are distinguished	VMMC-2002
	onera	
Extra circular, double stranded, self-replicating DNA p known as-	present in a bacteria is Plasmid	AP EAPCET-11.07.2022 Shift-I Rajasthan PMT-2007, 2003 BVP-2005 JCECE-2004 AIIMS-1998
Plasmids are found in-	Bacteria	MHT CET-2010 MHT CET-2010 Rajasthan PMT-2009, 2005, 1996 Punjab MET-2009 CMC Vellore-2009 UP CPMT-2009, 2002 Manipal-2002
		Karnataka CET-2001

is a bacterium commonly found in the animal and human intestines-	AP EAMCET-11.07.2022 Shift-II
is a bacterium commonly found in the animal and numan intestines– Escherichia coli	Punjab MET-2011
	DUMET-2011
Wriggling movements of sporozoites are caused by– Microtubules	AP EAPCET-23.05.2023, Shift-II
Amphitrichous bacteria contains which type of flagella -Single flagella at each er	
DNA of $\phi \times 174$ bacteriophage has- 5386 Nucleotides	TS EAMCET-11.05.2023, Shift-II
The early bacteria synthesized chlorophyll from- Magnesium porphyrin	AP EAPCET-23.05.2023, Shift-I
The structures of the parent that disappear during binary fission of Euglena and	AP EAPCET-23.05.2023, Shift-I
develop a fresh in daughter euglenae	
Stigma paraflagellar body and contractile vacuole	AP EAMCET-12.07.2022 Shift-II
Two enzymes responsible for restricting the growth of bacteriophage were isolated from- Escherichia coli	
Fragment of DNA inserted in bacteria for forming copies is known as - Plasmic	Punjab MET-2009
Antibiotics are produced by– Bacteria	AP EAPCET-12.07.2022 Shift-I
Archaebacteria differ from eubacteria in- Cell membrane	AP EAMCET -03.09.2021, Shift-I AIPMT-2014
The use of friendly bacteria for therapeutic use is a concept of- Probiotics	AP EAMCET-03.09.2021 Shift-II
Smallest bacterial genome is seen in- Mycobacterium genitalium	MHT CET 5.10.2020 Shift-I
The sites of nitrogen fixation in blue green algae are- Heterocysts	MHT CET 5.10.2020 Shift-I
Escherichia coli is extensively used in biological research because it is- Easily cultured	AP EAMCET-24.09.2020 Shift-II AIPMT-1993
The structure present in cyanobacteria (BGA) helping is N ₂ fixation is- Heterocyst	Punjab MET-2008 TS EAMCET-29.09.2020 Shift-II
Inclusion bodies of blue-green, purple and green photosynthetic bacteria are–	NEET-2020 Phase-II
Gas vacuoles	
The main difference in Gram (+)ve and Gram (-)ve bacteria resides in their-	WB JEE-2011
Cell wall	AP EAMCET-24.09.2020 Shift-II AIPMT-1990
Microbes like Spirulina can be good alternate to the conventional sources of	Karnataka CET-2019
proteins for human nutrition, because- They give more biomass in less time	
It is true about culture media for microbes–	SRM JEEE-2019
Lowenstein-Jensen medium is used to isolate mycobacteria	MHT CET-2019
Single chromosome with circular DNA as genetic material occurs in-E. coliBacterial flagella is made up of-Flagellin	SRM JEEE-2018
č 1	НР СЕТ-2018
	Karnataka CET-2017
Bacterium the REN-Sal-I is isolated by-Streptomyces albusRestriction endonucleases are isolated from some bacteria. Their role in bacteria	Karnataka CET-2017 Karnataka CET-2017
is- Defence against virus	
Treponema pallidum is abacterium. Spirochaete	MHT CET-2017
The components which provides sticky character to the bacterial cell-Glycocalyx	NEET-2017
Which group contain DNA and RNA, demonstrate a long circular strand of DNA, not formed enclosed in a nuclear membrane and are bacteria-	JIPMER-2017
Teichoic acids are typically found in- Cell walls of gram positive bacteria	SRM JEEE -2017
	UPCPMT-2011, 2009 J & K CET-2008
Microbes that inhibit the growth of other microorganisms termed as-Antagonism	SRM JEEE -2017
Most widely used bioweapon is- Bacillus anthracis	BCECE-2010
In bacteria, plasmid is- Extra chromosomal material	AIPMT-2002
The semilog of per minute growing bacteria is ploted against time. The shape of graph will–	AIPMT-2002
'Comma' shaped bacteria are known as– Vibrio	AFMC-2001
The type of nutrition in purple and green sulphur bacteria is– Photoautotrophic	TS EAMCET-2015
Bacterium responsible for retting of jute and flex is- Clostridium	UP CPMT-2013
Bacteria with flagella all over its body, is called– Peritrichous	AIIMS-1994
Single filament of Nostoc without mucilage sheath is called as-	BHU PMT (Mains)-2010
Autotrophic organism with phycocyanin is called –	BITC 1 MT (Mains)-2010 BVP-2004
Autotrophic organism with phycocyanin is called – Cyanobacteria	B 11-2004
Cyanobacteria	1

A mutant which has lost its ability to synthesize one or more essential	BVP-2005
compounds is called a/an- Auxotroph	
Heterothallism was discovered in- Mucor	BVP-2002
Bacterial toxins when excreted into the surrounding medium are known as- Exotoxins	Uttarakhand PMT-2006
Sexual reproduction is absent in- Nostoc	BVP-2001
Beggiatoa is a- Chemoautotroph	AP EAMCET-2014
The structure present in cyanobacteria (BGA) helping in nitrogen-fixation is- Heterocyst	JCECE-2010
Plasmid found in bacteria and used as vectors in molecular biology/ biotechnology work. These genetic element of bacteria are– Extra-chromosomal	AMU-1995
When there is bunch of flagella on one side, the bacteria are known as– Lophotrichous	AMU-1995
Methanogens belong to- Archaebacteria	NEET-2016 Phase-II
The structures that help some bacteria to attach to rocks and/or host tissues are- Fimbriae	AIPMT (Re-Exam)-2015
Structures which perform the function of mitochondria in bacteria- Mesosomes	AIPMT-2014
Pigment-containing membranous extensions in some cyanobacteria are- Chromatophores	NEET-2013
Besides paddy fields, cyanobacteria are also found inside vegetative part of– Cycas	NEET-2013
Barophilic prokaryotes- Grow and multiply in very deep marine sediments	AIPMT-2005
In Angiosperm all the four microspores of tetrad are covered by a layer which is formed by– Callose	AIPMT-2002
Transduction in bacteria is mediated by– Phage vectors	AIPMT-1994
Genophore/bacterial genome or nucleoid is made of– A single double stranded DNA	АІРМТ-1993
Bacteria lack alternation of generation because there is– Neither syngamy nor reduction division	AIPMT-1992, 1991
Organisms, which fix atmospheric nitrogen in the soil, fall under the category of– Bacteria	AIPMT-1994
A large number of organic compounds can be decomposed by– Chemolithotrophs	AIPMT-1995
The sex organs provided in some bacteria are- Sex pili	AIPMT-1996
Azotobacter and <i>Bacillus polymyxa</i> are the examples of- Non-symbiotic N ₂ fixer	AIPMT-1996
The hereditary material present in the bacterium E.coli is-Double-stranded DNA	AIPMT-1997
In bacteria respiration occurs in- Cytoplasmic membrane	JIPMER-2005
Water bloom is generally caused by- Blue green algae	JIPMER-2008 BHU PMT (Screening)-2007 BVP-2004
Genes are packaged into a bacterial chromosome by– Basic protein	AIPMT-1997
Photosynthetic bacteria have- Pigment systems I and II	AIIMS-2011
Some Gram-ve bacteria have peptidoglycan and an extra layer of– Lipo-polysaccharide	AIIMS-2001
The site of respiration in bacteria is- Mesosome	AIPMT-1997
Bacteria with single flagella at one end is called- Monotrichous	Punjab MET-2006
Maximum number of antibiotics are obtained from- Bacteria	AFMC-2003
Substances secreted by bacteria are- Toxins	AFMC-2003
Splenic fever occurs in cattles, goats, camel and sheep etc, and is caused by– Bacillus anthracis	BCECE-2015
Incubation period of Treponema pallidum is about– 3 to 4 weeks	MHT CET-2016
Extra chromosomal circular DNA is found in- Bacteria	MHT CET-2008
The structure formed by bacterial genome is called Nucleoid A plagmid is made up of DNA	Rajasthan PMT-1997 JIPMER-1996 HDMED 2002
A plasmid is made up of- DNA and DNA but no collocal in Marco and	JIPMER-2002
An organisms having cytoplasm, DNA and RNA but no cell wall is-Mycoplasma	CG PMT-2005

BCECE-2015	How many basal body rings are present in gram positive cells– 2
WB JEE-2007	Archaebacteria is also called– Halophiles
MGIMS Wardha-2015	Actinomycetes is not a– Bacteria
DUMET-2002	Organisms found in extreme temperature are- Archaebacteria
DUMET-2002	In ruminants cellulose digestion takes place by– Bacteria and protozoans
BVP-2008, DUMET-2005	Bacteria do not have– Mitochondria
DUMET-2000	Spirochaetes is- Bacteria
KVPY SB & SX-2014	How many linear DNA fragments will be produced when a circular plasmid is
	digested with a restriction enzyme having 3 sites– 4
KVPY SB & SX-2014	A bacterial colony is produced from– A single bacterium by its repetitive division
MP PMT-2013	Monera possess– Nucleoproteins in direct contact with the rest of the cell substance
AMU-2014	In purple and green bacteria, oxygen is not evolved during photosynthesis because hydrogen donor is- H ₂ S
Punjab MET-2011	The plasma membrane of mycoplasma is rich in– Cholesterol
Rajasthan PMT-2002 JCECE-2003	The characteristic of blue-green algae is-
	DNA without histone, nuclear membrane absent and 70s ribosomes
UP CPMT-2012	Gram negative bacteria are resistant due to presence of Lipopolysaccharides
Karnataka CET-2015	The organism which completely lack a cell wall and can live without oxygen are- Mycoplasmas
DUMET-2007	Linkage group in E. coli is-
WB JEE-201 4	The structure of E. colichromosomal DNA is– Double – stranded, right handed and circular
WB JEE-2014	Lederberg and Tatum (1946) discovered– Conjugation
WB JEE-2014	The component of bacteria that retains the crystal violet stain during Gram staining is- Peptidoglycan
WB JEE-201 4	Streptococcus pyogenes bacteria is observed as- Chain - like formation
BVP-2008	Chromosomes in a bacterial cell can be 1-3 in number and are- Always circular
JIPMER-2010 BHU PMT (Mains)-2008	Bacteria are considered plant because they– Have rigid cell wall
BHU PMT (Screening)-2005 BCECE-2013	The bacterium (<i>Clostridium botulinum</i>) that causes botulism is–
BHU PMT (Mains)-2010 AIPMT-2006	An obligate anaerobe
BCECE-2012	Mesosomes are distinctive prominent is not characteristic of– Gram positive bacteria
CG PMT-2004	The bacterial genome contains DNA without histone
CG PMT-2004	The smallest free-living organism is- Mycoplasma
CG PMT-2004	The sexuality in bacteria was established by– Lederberg and Tatum
BVP-2011	Cell wall is extremely well preserved in fossil specimen in– Diatoms
CMC Vellore-2011	Some bacteria are not easily killed by antibiotics or heat treatment because of their– Capsule
J&K CET-2011	Pseudomonas is– Denitrifying bacteria
Haryana PMT-2000	Plague (black death) is caused by– Bacteria
WB JEE-2008	The Gram (-) bacteria detect and respond to the chemicals in their surroundings by- Porin
WB JEE-2015	Staphylococci cocci appears like graphs under– Microscope
VMMC-2007 Rajasthan PMT-2005	Smallest bacteria is- Dialister
UPCPMT-2002 Punjab MET-2010	Photosynthetic bacteria have nigments in Chuomatanhave
NEET-2016 Phase-J	Photosynthetic bacteria have pigments in-ChromatophoreSingle-stranded is not a feature of the-Plasmids
AIPMT (Screening)-2010	Some hyperthermophilic organisms that grow in highly acidic (pH - 2) habitats
	belong to the two groups– Eubacteria and archaea
AIPMT (Screening)-2010	Membrane-bound organelles are absent in- Streptococcus
JIPMER-2004	Circular free DNA is found in– Bacteria

Thermococcus, Methanococcus and Methanobacterium are groups of-	CMC Vellore-2015 JIPMER-2015
Archaebacteria that consists of protein homologous to eukaryotic core histones	AIIMS-2008
The part of the bacterial chromosome sharing homology with genome fragment	JIPMER-2015
transferred from the recipients to cell during merozygote formation is known as-	511 WIER-2013
Endogenate	
Gas gangrene is caused by– Clostridium perfringens	JIPMER-2015
The most abundant prokaryotes helpful to humans in making curd from milk and	AIPMT (Screening)-2012
in production of antibiotics are ones categorised as– Heterotrophic bacteria	
The Cyanobacteria are also referred to as– Blue green algae	AIPMT (Screening)-2012
Cell membrane does not differ in- E.coli and Chlamydomonas	AIPMT (Screening)-2012
Maximum nutritional diversity is found in the group– Monera	AIPMT (Screening)-2012
Capsule advantageous to a bacterium because-	NEET (Karnataka)-2013
It allows bacterium to "hide" from host's immune system	
The term 'Glycocalyx' is used for-A layer surrounding the cell wall of bacteria	NEET (Karnataka)-2013
Modern farmer's can increase the yield of paddy upto 50% by the use of-	AIPMT-1998
Cyanobacteria in Azolla pinnata	
Transduction in bacteria carried out by– Bacteriophage	AIPMT-1998
Hot water spring thermophiles survives a temperature of- 104 °C to 106°C	AIPMT-1998
Bacteria are essential in carbon cycle as– Decomposer	AIPMT-1998
According to five kingdom system, blue-green algae belongs to- Monera	J&K CET-2011, AIPMT-1998
Non–symbiotic nitrogen fixing bacteria– Azotobacter	AIPMT-1998
DNA of E. coli– ds circular	AIPMT-1998
Azolla is used in the cultivation of– Rice	AIPMT-1999
Anabaena is associated with Azolla–	AIPMT-1999
Plant pathogenic bacteria are mostly– Gram – Non spore forming	AIPMT-1999
In Lederberg's replica plating experiment what shall be used to obtain	AIPMT-2001
streptomycin resistant strain– Complete medium and streptomycin	
Oxygenic with nitrogenase is true for- Cyano bacteria	AIPMT-2001
Plant decomposers are- Monera and fungi	AIPMT-2001
Oldest living beings is true for- Archaebacteria	AIPMT-2001
Difference in gram positive and gram negative bacteria is due to- Cell wall	AIPMT-2001
An organism used as a Biofertilizer for raising soyabean crop is- Rhizobium	AIPMT (Screening)-2011
Marsh gas is mainly produced by the activity of anaerobic bacteria on- Sewage	AIPMT (Screening)-2011
Glomus helps in absorption of phosphorus from soil by– Plants	AIPMT (Screening)-2011
The function of leghaemoglobin in the root nodules of legumes is-	AIPMT (Screening)-2011
Oxygen removal	
Bacteria which oxidize ammonia to nitrates- Nitrifying bacteria	AIPMT (Screening)-2011
In eubacteria, a cellular component that resembles eukaryotic cell is-	AIPMT (Screening)-2011
Plasma membrane	
Organisms called Methanogens are most abundant in a- Cattle yard	AIPMT (Screening)-2011
PPLO are smallest cell in the living world. The extend form of PPLO is-	JIPMER-2016
Pleuro Pneumonia Like Organism	AMU-1999
The wall of bacteria consists of-	UP CPMT-2005
N- acetyl glucosamine and N- acetyl muramic acid	DUMET-2005
A bacterial cell wall is mainly composed of- Peptidoglycan (murein)	UP CPMT-2014
Mollicutes cell is most minute and smallest– Free-living organism	VMMC-2003 / AIIMS-1999 UP CPMT-2014
Circular free floating molecule of DNA duplex, autonomous, found in bacterial	UP CPMT-2014
cytoplasm are extensively used as vector in genetic engineering– Plasmids	BVP-2006
Bacteria differ from plants in that they do not have– A well define nucleus	UP CPMT-2011
Identify a micro-organism that can produces biomass of protein–	Karnataka CET-2016
Methylophilus methylotrophus	
Chromosomes in bacterial cell can be 1 to 3 in– are always circular	MGIMS Wardha-2010
	Uttarakhand PMT-2007
Lipopolysaccharide located on the surface of the bacteria is called -	JIPMER-2013
Bacterial endotoxin	

UP CPMT-2004	ed micro-organism Bacteria	Colourless, unicellular, cell wall bound, spherical or rod-sh and lacking organised nucleus is called-
WB JEE-2010	Mycobacterium sp.	Tuberculosis is caused by-
WB JEE-2010	Bacteria	Bacteriophages kill-
Rajasthan PMT-2004	Monotrichous	Bacteria with single flagella at one end is called–
Rajasthan PMT-2004	Citrus canker	Bacteria causing disease of citrus is–
Rajasthan PMT-2004	Bacteria	O_2 does not evolved in photosynthesis of-
AFMC-2000		When the procedure of bacterial staining is carried out, the
	Red	bacteria stains-
AMU-2015	algae is– Muramic acids	The cell wall material present only in bacteria and blue-gre
BCECE-2005	Bacteria	Nucleic acid is the hereditary material in-
BHU PMT-2002	Bacteria	Mesosomes are found in-
Punjab MET-2003 BHU PMT-2002	DNA	Type of genetic material present in bacteria is-
BHU PMT-2003	plasmic membrane	In bacteria respiration occurs in– Cy
Punjab MET-2003		In bacterial cell enzymes for aerobic respiration are found i
Rajasthan PMT-1996		
UP CPMT-2010	Prokaryotic	Blue-green algae are-
UP CPMT-2010, 2001	Bacterial cell	Amphitrichous have flagella on both ends of the-
BHU PMT (Screening)-2007 UP CPMT-2003	c-phycocyanin	Pigment present in cyanobacteria is-
Uttarakhand PMT-2007 UP CPMT-2003	Mitochondria	Bacteria do not have-
UP CPMT-2003	Photosynthesis	Photosynthetic bacteria does not evolve during-
UP CPMT-2003	olue-green pigment	
KVPY SB and SX-2015	and L-amino acids	The peptidoglycans of bacteria consist of- Sugars, D-amino aci
DUMET-2008	Kingdom-Monera	Slime mould does not belong to-
JCECE-2005	Symbiotic bacteria	Rhizobium is-
J&K CET-2009		The autonomously independent self replicating extra nuclear certain factors to some bacterium is called–
J&K CET-2009	Ehrenberg	The term bacteria was coined by–
JIPMER-2002, 1997	Genophore	The genetic material of bacteria is present as-
BCECE-2014	Chromatophores	The site of photosynthesis in blue-green algae is-
Uttarakhand PMT-2009 BHU PMT (Screening)-2009		
Kerala PMT-2015	Kingdom Monera	Heterotrophic belongs to the-
BHU PMT (Screening)-2010	500 kilobase	Maximum number of bases in plasmid discovered so far is-
BHU PMT (Screening)-2010	Archaebacteria	The oldest living organisms on earth are known as-
JIPMER-2003	m blue-green algae	The red color of red sea is due to- Trichodesm
JIPMER-2003	Cycas	Blue-green algae is found in-
Rajasthan PMT-2010	extensive and Chromatophores	In prokaryotes, internal membrane systems that may becon complex in photosynthetic bacteria is known as -
AMU-2010	Monera	Nuclear membrane is absent in–
AMU -2000	globe is-	The most successful group of organism on the surface of or
AMU -2000	č	Gram negative photosy The characteristic cells wall material peptidoglycan has and
	eria Gram negative	
AMU-1999	res through the Archaebacteria	The rumen of cattle is the site of fermentation of cellulose action of–
AMU-1998	Oxygenic	The nature of photosynthesis in blue-green algae is-
HP CET-2013 VMMC-2002	Nostoc	Heterocysts are found in-
VMMC-2006	Capsanthin	A pigment in carotenoid is found in bacteria and fungi, it is
		- r-o
VMMC-2006	Mesosomes	The site of respiration in bacteria is-

Witches have a discount in 11	Mesosome	Rajasthan PMT-1998
Witches broom disease is caused by–	Iycoplasma	JCECE-2005
		Manipal-2000 Rajasthan PMT-1998
The photoautotrophs, chemoautotrophs and heterotrophs incorporates	bv–	BCECE-2009
	om Monera	CG PMT-2007
		AMU-1999 Uttarakhand-2005
	Prokaryotes	Haryana PMT-2005
Heterocysts are found in- Cya	anophyceae	J & K CET-2000
The outer face of outer membrane of Gram-negative bacteria having-		VMMC-2014
	saccharides	
Photosynthetic bacteria does not evolve-	Oxygen	JIPMER-2001
	Mycoplasm	Manipal-2013
	r arietinum	BHU PMT (Mains)-2008
The shape of the cocci bacteria is-	Spherical	AMU-2012
Black rot of crucifers is caused by a-	Bacterium	AMU-2012
Many bacteria are now resistant to penicillin because-		BHU PMT (Screening)-2011
previously resistant forms survived and reproduced bette	r than non- stant forms	
A bacterium is capable of withstanding extreme heat, dryness and tox		Manipal-2009
	Endospores	F
An example for symbiotic bacteria– Rhizobium legu	minosarum	DUMET-2009
E. coli is found in- Colo	n of human	VMMC-2010
Leprosy is due to- Myc	obacterium	Haryana PMT-2003
Cyanobacteria differs from other groups of bacteria in their-	Nutrition	CG PMT-2010
Instead of chromosome which of the following has only DNA-		CMC Vellore-2014
	and E. coli	
51	Nostoc cells	CMC Vellore-2014
	ra red light	VMMC-2003
· · · · · · · · · · · · · · · · · · ·	ousand year	AFMC-2001
The disease caused by mycoplasma is-	6	Rajasthan PMT-2000
Papaya bunchy top, Brinjal little leaf and Witches broo		D-:
The inner most membrane of gram (-) negative bacteria is consist of-	1 1	Rajasthan PMT-2000 KVPY SA-2015
	Soil fertility	AMU-2002
	lycogen like	AMU-2002 AMU-2001
Aerobic bacteria found in hot sulphur springs are termed as– Thermo		UP CPMT-2011
The bacteria oxidising a number of inorganic compounds to obtain en assimilation of CO ₂ are called– Chemoautotropl	hic bacteria	AMU-2001
	r flagellum	AP EAMCET-2002
Protista		
		UP CPMT-2012,2011,2008
Contractile means le in meters an American is mount for	oregulation	
Contractile vacuole in protozoan Amoeba is meant for- Osm	0	Rajasthan PMT-2011, 2008, 2007,
Contractile vacuole in protozoan Amoeba is meant for- Osm	0	2004, 2000, 2002, 1998
Contractile vacuole in protozoan Amoeba is meant for- Osm	8	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991
Contractile vacuole in protozoan Amoeba is meant for- Osm	8	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET-
Contractile vacuole in protozoan Amoeba is meant for- Osm	5	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991
Contractile vacuole in protozoan Amoeba is meant for- Osm Passive food ingestion in Amoeba is known as-	Import	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005
		2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007 CGPMT-2010, Manipal-2008
		2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007
	Import	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007 CGPMT-2010, Manipal-2008 Uttarakhand PMT-2008 MGIMS Wardha-2006 AFMC-2003
Passive food ingestion in Amoeba is known as–	Import	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007 CGPMT-2010, Manipal-2008 Uttarakhand PMT-2008 MGIMS Wardha-2006 AFMC-2003 Rajasthan PMT-2003
Passive food ingestion in Amoeba is known as– A bite of tse- tse fly may pass to humans– Trypanosoma	Import a gambiense	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007 CGPMT-2010, Manipal-2008 Uttarakhand PMT-2008 MGIMS Wardha-2006 AFMC-2003
Passive food ingestion in Amoeba is known as-	Import a gambiense an body is–	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007 CGPMT-2010, Manipal-2008 Uttarakhand PMT-2008 MGIMS Wardha-2006 AFMC-2003 Rajasthan PMT-2003 Karnataka CET-2000 AIPMT-1991, 1989 WBJEE-2011
Passive food ingestion in Amoeba is known as– A bite of tse- tse fly may pass to humans– Trypanosoma	Import a gambiense	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007 CGPMT-2010, Manipal-2008 Uttarakhand PMT-2008 Uttarakhand PMT-2008 MGIMS Wardha-2006 AFMC-2003 Rajasthan PMT-2003 Karnataka CET-2000 AIPMT-1991, 1989 WBJEE-2011 DU MET-2008, 2005, 2001
Passive food ingestion in Amoeba is known as– A bite of tse- tse fly may pass to humans– Trypanosoma	Import a gambiense an body is–	2004, 2000, 2002, 1998 JCECE-2010 / Punjab MET-2008 / AIPMT-2002, 1991 CG PMT-2008/ Karnataka CET- 2005 Manipal-2001/ AIIMS-1996 BVP-2012, 2007 CGPMT-2010, Manipal-2008 Uttarakhand PMT-2008 Uttarakhand PMT-2008 MGIMS Wardha-2006 AFMC-2003 Rajasthan PMT-2003 Karnataka CET-2000 AIPMT-1991, 1989 WBJEE-2011

Amoeba differs from Entamoeba in having- Contractile vacuole	JIPMER-2010
Amoeda uniers nom Entamoeda in naving- Contractie vacuore	AMU-2009, 2002
	Punjab MET-2008 UPCPMT-2006
Mild tertian malaria is caused by– Plasmodium ovale	AP EAPCET-22.05.2023, Shift-II
Free living microorganism that feed on organic detritus and an example–	AP EAPCET-22.05.2023, Shift-I
Saprophytes, Bacillus	
Protozoan in which cilia are confined only to juvenile stages are- Acineta	AP EAPCET-23.05.2023, Shift-II
The diploid stage in the life cycle of Plasmodium vivax is- Ookinete	TS EAMCET-11.05.2023, Shift-I
Undulipodia are- Flagella and cilia of protozoans	AP EAPCET-11.07.2022 Shift-I
In parasitic castration- Gonads of the host degenerate	AP EAPCET-11.07.2022 Shift-I
Multicellular animals that exhibit cellular level organisation are- Parazoans	TS EAMCET-30.07.2022 Shift-II
During binary fission of Euglena is divided by-	AP EAPCET-12.07.2022 Shift-I
Nucleus, kinetosomes and chromatophores	
Digenetic cytozoic parasite is- Plasmodium	TS EAMCET-30.07.2022 Shift-II
Organism "A" lives as a parasite in the body of an organism "B", "C" is another organism lives as a parasite in the body of "A" then C is- Hyperparasite	TS EAMCET-31.07.2022 Shift-I
Transformation of merozoites of Plasmodium into gametocytes takes place when the erythrocytes are in- Bone marrow	TS EAMCET-31.07.2022 Shift-I
Actinophrys has- Heliopodia	TS EAMCET-09.08.2021 Shift-II
In which body part of female Anopheles mosquito, gametes of parasite	GUJCET-2021
Plasmodium fertilise and develop- Gut	
Dimorphic nucleus is found in animal- Paramecium caudatum	AP EAMCET-06.09.2021 Shift-I AIPMT-2002
The daughter paramecia formed immediately after binary fission are-	TS EAMCET-10.08.2021 Shift-I
Proter and opisthe	
All protozoans are / have- Eukaryotic organization	AP EAMCET-03.09.2021 Shift-I
The interval between the first entry of Plasmodium into the blood of man in the	AP EAPCET-07.09.2021 Shift-I
form of sporozoites and its second entry in the form of cryptozoites is called– Prepatent period	TS EAMCET-08.05.2019 Shift-II
Euglena is- Photosynthetic Protozoa	AP EAMCET-05.10.2021 Shift-I
Multiple fission in Amoeba is called– Sporulation	TS EAMCET-09.08.2021 Shift-I BCECE-2004
The vigour and vitality lost due to repeated binary fissions in ciliates is restored by– Conjugation	TS EAMCET-29.09.2020 Shift-I
Pseudopodia is mainly seen in- Amoeba	AP EAMCET-25.09.2020 Shift-II
The typical angiosperm embryo sac- 8 nucleate, 7 celled	TS EAMCET-29.09.2020 Shift-II
	Karnataka CET-2013
Mastigophora is also known as- Flagellata	AP EAMCET-24.09.2020 Shift-II
Protozoan are usually- Unicellular Enclosed and the Enclosed A Dellicht Enclosed	AP EAMCET-25.09.2020 Shift-I
Euglenoids are characterized by- Flagellated, Pellicle, Eyespot	AP EAMCET-25.09.2020 Shift-I TS EAMCET-08.05.2019 Shift-I
The process of 'exflagellation' occurs in which one of the following stages of the life cycle of Plasmodium– Gametogony	15 EANICE 1-08.05.2019 Shift-1
The sequence in the developmental stages of plasmodium-	MHT CET-2019
Sporozoites \rightarrow Merozoites \rightarrow Trophozoites \rightarrow Schizonts	
The enzyme secreted by trophozoites of <i>Entamoeba hystolytica</i> to dissolve the mucosal lining of the intestine of man– Histolysin	TS EAMCET-09.05.2019 Shift-I
Infective stages of malarial parasite is found in- Salivary glands of mosquito	AIIMS-27.05.2018 Shift-II
Paramecium is an example of- Ciliated Protozoa	Tripura JEE-2018
Most unusual protist phyla is- Dinoflagellates	HP CET-2018
Ciliates differ from all other protozoans in- having two types of nuclei	NEET-2018
Amoeba is immortal because– Parental body is distributed among the offsprings during binary fission	Karnataka CET-2017
Auxospores are produced in- Diatoms	VMMC-2015
Life history of Plasmodium is– Digenetic	Haryana PMT-1999
Protists obtain their food as- Photosynthesizers and chemosynthesizers	AIIMS-2011
Protista differs from Monera in having- Nuclear membrane	AIIMS-2010
Intermediate host is absent in the infection of– Entamoeba	AIIMS-2009

Sexual stage (gametocytes) of Plasmodium occurs in-	Human RBC	AIIMS-2013
In Entamoeba histolytica, the presence of chromatid b		AIIMS-2002
in Enanceeu meterjaeu, die presence er emenadu e	Precystic stage	
The part of life cycle of malarial parasite Plasmodium		AIPMT-1992
female Anopheles is-	Sexual cycle	
Malignant tertian malaria parasite, belongs to –	Plasmodium falciparum	AIPMT-1991
Kala azar and Oriental Sore are spread by-	Sand fly	AIPMT-1990
During unfavourable conditions Amoeba reproduces t	hrough– Multiple fission	Punjab MET-2006 Rajasthan PMT-2004
When more than one species of Plasmodium infect a p	person it is called_	JCECE-2002
when more than one species of r fusitiourum infect a p	Quotidian malaria	
In which species of Paramecium, autogamy is found-	Paramecium aurelia	JCECE-2002
Which response Amoeba shows towards current of wa		JCECE-2002
NH ₃ in Amoeba is excreted by–	Plasma membrane	JCECE-2006
Entamoeba histolytica is-	Monogenetic parasite	JCECE-2006
The cyst wall of Euglena is made up of-	Carbohydrates	Uttarakhand PMT-2010
Schuffner's dots produced by Plasmodium are-	Antigens	Uttarakhand PMT-2010
Plasmodium falciparum causes which type of malaria-	- Pernicious	Uttarakhand PMT-2010
Two mating types of a variety of Paramecium are-		CMC Vellore-2012
Morphologically similar and		
They have indestructible wall layer deposited with sill		Kerala PMT-2011
feature of-	Chrysophytes	DOECE 2015
Euglena is a-	Holophytic protozoa	BCECE-2015
Mode of nutrition in Trypanosoma is-	Parasitic	DUMET-2006
Chagas disease is caused by-	Trypanosoma cruzi	DUMET-2000
Marine protozoans lack contractile vacuole because–	notic to their environment	DOME 1-2002
Amoeba is an–	Unicellular animal	DUMET-2005
		UPCPMT-2003
	Stomach wall of mosquito	DUMET-2004, BVP-2014, 2000
Recombination results from conjugation in-	Paramecium	KVPY SB & SX-2014
Name the protozoan parasite with a food vacuole–	Plasmodium	AP EAMCET-1998
Unicellular algae, diatoms and protozoans are the men		J&K CET-2013
Schizogony of Plasmodium is also called as-	Agamogony	Punjab MET-2011
In life cycle of Plasmodium, ex-flagellation leads to- f		Rajasthan PMT-2002 Rajasthan PMT-2002
What happens in anterior part of Amoeba at the time of pseudopodia– plasma g	gel convert into plasma sol	Kajastnan FW1-2002
Where does exoerythrocytic cycle take place in life cy		Rajasthan PMT-2002
where does excery integrate eyere take place in the ey	Human liver	
Dimorphism is present in which-	Ciliata Protozoa	Rajasthan PMT-1999
In Amoeba hyaline cap is formed on –	Pseudopodia	Rajasthan PMT-1999
	- -	MGIMS Wardha-2012
Slipper animalcule is-	Paramecium	Manipal-2005 BVP-2014
Sporozoite infectious stage of Plasmodium parasite co		BVP-2014 VMMC-2009
Oocysts in the stomach of female Anapheles discovered	ed by– Ronald Ross Ciliates	AP EAMCET-2015
Kinety system is present in-	Cinates	TS EAMCET-2015
Excretory substance of Amoeba is-	Ammonia	Rajasthan PMT-1995
Entamoeba histolytica is present in-	Life cycle	Rajasthan PMT-1995
Entamoeba coli doesn't spread disease in-	Human	Rajasthan PMT-1995
Pseudopodia is characteristic of class-	Sarcodina	Rajasthan PMT-1995
Mode of feeding in free living protozoan is-	Holozoic and saprozoic	DUMET-2007
Pseudopodia are produced by-	Fibroblast cell	WB JEE-2014
During which process in Paramecium out of the four		BCECE-2012 Buniah MET 2004
nuclei degenerate-	Conjugation	Punjab MET-2004
Chromatoid bodies in Entamoeba histolytica are found	, ,	CMC Vellore-2011
Entamoeba histolytica is found in –	Intestine	Haryana PMT-2000

Punjab MET-2005	ingdom which includes life cycle showing zygotic meiosis and life cycle howing gametic meiosis- Protista
Punjab MET-2005	uglenoid species that have chlorophyll are- Facultative autotrophs
Punjab MET-2005	hytoplankton creatures are direct or indirect food of all creature on the– Oceans surface
WB JEE-2008	ebrine disease of mulberry silkworm caused by– Protozoa
Kerala PMT-2014	uglenoids of organisms have a protein rich layer called– Pellicle
Kerala PMT-2013	he main function of filiform apparatus present at the micropylar part of the vule– It guides the entry of pollen tube into a synergid and discharge the male gametes
NEET-2016 Phase-I	hrysophytes, Euglenoids, Dinoflagellates and slime moulds are included in the ngdom– Protista
AIPMT (Screening)-2010	ingle-celled eukaryotes are included in- Protista
JIPMER-2004	east belongs to class– Ascomycetes
AP EAMCET-2008	ertain stages of <i>Plasmodium vivax</i> may survive for a long period in the liver of an as dormant stages and on reactivation enter into the cycles– Erythrocytic schizogony
Karnataka CET-2009	<i>osema bombycis</i> which causes pebrine in silk worms is a- Protozoan
Karnataka CET-2010	Then fresh water protozoan is placed in marine water– The contractile vacuoles disappear
JIPMER-2016	lime-mould belongs to- Kingdom Protista
UP CPMT-2011	umber of layers in amoeboid cyst are- 3
UP CPMT-2006	moeba was discovered by– August Johann Rosel von Rosenhoff
Uttarakhand-2005 BVP-2000	hagocytosis was observed first time by– Elie Metchnikoff
JIPMER-2006	appa particles indicate- Cytoplasmic inheritance
AP EAMCET-2000	he parasite of endothelial system of man is- Leishmania
UP CPMT-2013	he phenomenon of metaboly is exhibited by– Euglena
AIIMS-1999	bligate parasites lives on – Living host
BVP-2003	chistosoma is a parasite found in– Liver
BVP-2001 Manipal-2002	eproduction in Paramecium is controlled by– Micronucleus
AP EAMCET-2014	he type of syngamy seen in Trichonympha is- Hologamy
JCECE-2010	Igae attached to stone is called— Epilithic
KVPY (SA)-2013	pathogen which cannot be cultured in an artificial medium is- Virus
AIIMS-2000	ell wall is absent in- Amoeba
UPCPMT-2009 AIIMS-1998 AIIMS-1998	he infective stage of Entamoeba histolytica is- Trophozoite
AIIM5-1996	rypanosoma causes sleeping sickness in man, it finally invades– Cerebro-spinal fluid
AIPMT-2015	rue nucleus is absent in– Anabaena
UP CPMT-2007	arriers of Entamoeba histolytica are- Healthy human host
AIPMT-2003	Inclusion of Entandocod misorylica are- Inclusion frequency influence in the second
AIPMT-1994 Karnataka CET-2001 Haryana PMT-2000	he protists have– Membrane-bound nucleoproteins lying embedded in the cytoplasm
AIPMT-1990	enetic information in Paramecium is contained in- Micronucleus
AIPMT-1989	rypanosoma belongs to class- Zooflagellata
JIPMER-2008	Iovements by pseudopodia of Amoeba are due to change in- Viscosity
AIIMS-2006	limy mass of multinucleate protoplasm, having pseudopodia-like structures for ngulfing food, reproduction through fragmentation of zoospores are –
	Myxomycetes
AIIMS-2011	roterospongia is a connecting link between– Protozoans and poriferans
AIIMS-2011	osema protozoans is threat to- Apiculture and sericulture
AFMC-2005	arapodia is not the locomotory organ of– Protozoa
BCECE-2011	n intracellular parasite is- Plasmodium

Taenia is not a-ProtistBCECIIn 1902 Nobel prize was given to-Sir Ronald Ross for observing PlasmodiumRajasthan PMTAssistance provided during locomotion in Amoeba-Rough surfaceRajasthan PMT	2-2011
	L-1004
Less temperature are optimum for activation of gametogenesis in Plasmodium in Rajasthan PMT	
stomach/ alimentary canal of– Female Anopheles	-1990
Incubation period of <i>Plasmodium falciparum</i> is– 12 days Rajasthan PM	ſ -199 6
Amoeba lack- Centrosome Rajasthan PMT	
Plant like nutrition is present in– Euglena UP CPM	
The disease caused by Entamoeba gingivalis is spread through- Kissing Manipa	
Lime-knots of slime moulds are- Capillitia AFMC	
Sand fly spreads a particular type of disease by its- Proboscis Manipa	
Nucleus of Monocystis is- Spherical	
Plasmodium is an– Endoparasite Manipa	
Sexual mode of reproduction in Protozoa is- Anisogamy Uttarakhand PMT	
Octanucleated cyst stage is found in-Entamoeba histolyticaJIPMEL	
The protists have-	
Membrane bound nucleoproteins lying embedded is the cytoplasm	-2002
Physarum is a– Slime mould Rajasthan PM	[-2010
5	J -1998
Thigmotaxis is not shown by- Ascaris VMMO	
Protozoan, Protista are differentiated on the basis of – Locomotory structures CG PMT	
The type of pseudopodia seen in Lecithium is- Filopodia AP EAMCET	
The intermediate host of the parasite that causes Tashkent ulcers is–	
Phlebotomus papatassi	2001
Study of protozoans is called – Protozoology Haryana PM	-2002
The disease oriental sore is caused by- Protozoa Haryana PMT	
5	J -2006
Contractile vacuole	
Protista includes– Dinoflagellates, Amoeba, Paramecium J&K CET	-2006
	J -2005
The number of daughter Vorticella formed after the second series of post-	C-2010
conjugation fissions is–	
Trindebold no proposed the sol get theory for thirdebold november explanation	P-2013
An example of terrestrial protozoan is– Didymium AP EAMCET	
Diatoms belong to class- Bacillariophyceae BCECI	
UP CPM	
Amoeba has been kept in protozoa because-Unicellular bodyBCECIThe beautiful diatoms and desmids are placed under-ChrysophytesAMU	J-2002
	J-2012 J-2001
Wing like structure in middle of the body	-2001
Diatoms do not decay easily because- they have siliceous walls AIIMS	5-2011
Bratoms do not decay easily because Interview 'Red tide' is caused by- Gonyaulax	
VMMC	
The reserved food of Albugo is- Glycogen Haryana PM	
UP CPM AMU-2009 / AFMO	
Rajasthan PM	
Lomasomes are found in- Fungal cell AP EAMCET	
BVP-2000 / Manipa	
Haryana PMT Late blight of potato is caused by– Phytophthora infestans BCECI	
Haryana PM	Г-2009
MGIMS Wardh	
Cell wall of fungi is made up of – Fungal cellulose and fungal chitin UP CPM	J-1996 F-2009
JIPMER-2011	, 2018
Rajasthan PM	
Puffballs belongs to the class-BasidiomycetesTS EAMCET-11.05.2023,	
Identify the asexual reproductive structure associated with Penicillium– Conidia	Г-2022

Deuteromycetes is called as Imperfect fungi because-	AP EAPCET-11.07.2022 Shift-I
Sexual reproduction is absent	
Perithecium is characterized by– Flask-shaped fruiting body with apical opening	AP EAMCET-12.07.2022 Shift-II
Organisms which are eukaryotic, non-cellulosic cell wall, heterotrophic belongs to- Mycota	AP EAMCET-03.09.2021 Shift-II
Basidiomycetes do not form- Asexual spores	
The saprophytes like bacteria, actinomycetes and fungi are-	MHT CET-07.10.2020 Shift-I
Micro-consumers in an ecosystem	
Vernalization increases the resistance of plants for diseases caused by– Fungi	
Fungus without any mycelium is-SaccharomycesYeast cell can progress through the cell cycle in about-90 minutes	
Yeast cell can progress through the cell cycle in about– 90 minutes A student while extracting DNA from Aspergillus fungus requires	Karnataka CET-2019
enzyme to break open the cell wall.	
Morphologically and Physiologically similar and usually motile and flagellated	GUJCET-2018
gametes are known as- Isogamete, Cladophora	
VAM (Vesicular Arbuscular Mycorrhizae) is- Endomycorrhiza After karyogamy followed by meiosis, spores are produced exogenously in-	SRM JEEE-2018 NEET-2018
Agaricus	
Macromolecule nitrogen containing polysaccharide is – Chitin	JIPMER-2017
Dikaryotisation (n+n) in Agaricus is brought about by– Clamp connections and Somatogamay between two hyphae of different strains	АПМS-2017
Among plants, Pheromones are secreted by the cells of the-	Haryana PMT - 2005
Yeast for facilitating mating	
Aspergillus secretes toxins during storage conditions of- The zygospore in Rhizopus develops into- Promycelium	
Yeast is- Unicellular fungus	
	AIIMS-2000 Manipal-2002
Aspergillus cause disease in- Human beings	
Slimy mass of protoplasm with many nuclei and an amoeba-like thalloid body is a characteristic feature of– Myxomycetes	Kerala PMT-2009
Fungi can be stained with- Cotton blue	BVP-2000
Penicillium belongs to- Ascomycetes	
Organism which can respire in absence of O_2 is-	
When a fungus completes its life cycle on two hosts, it is called- Heteroecious	AMU-1995 CMC Vellore-2008
The fruiting body of Aspergillus or Penicillium is- Cleistothecium	AIIMS-1998 JCECE-2006
The imperfect fungi which are decomposers of litter and help in mineral cycling belong to- Deuteromycetes	AIPMT (Re-Exam)-2015
Amanita muscaria fungi contains- Hallucinogens	
An eukaryote which causes disease comes under-	
The black rust of wheat is a fungal disease caused by- Puccinia graminis tritici	
Absorptive heterotrophic nutrition is exhibited by– Fungi	AIPMT-1990 AP EAMCET-2008
Chlamydospores from dikaryotic mycelium fungus is produced by– Sphacelotheca sorghi	
Yeast is not included in protozoans but in fungi because- it shows saprotrophic mode of nutrition	
Rhizopus shows- Heterothallism	
Branched, aseptate, coenocytic mycelium present in– Albugo	Punjab MET-2006 Rajasthan PMT-2002 JCECE-2003
Mushrooms is not comprised of– Sac-fungi	
The scientific name of oyster mushroom, an edible fungus is-Pleurotus ostreatu	s JCECE-2002
Yeast is different from <i>Penicillium</i> and <i>Rhizopus</i> in being- Unicellular	JCECE-2002
Dikaryon formation is characteristic feature of– Basidiomycetes and Ascomycetes	BVP-2014 MGIMS Wardha-2006

A fungal disease of the poultry is-	Monilliasis	AP EAMCET-1998
One of the major components of cell wall of most fungi is-	Chitin	NEET-2016 Phase-I
The parthenospores of Rhizopus are-	Multinucleate	AP EAMCET-2007
Stored food in fungi-	Glycogen	AIPMT-2000
Black rust of wheat is caused by–	Puccinia	AIPMT-2000
Monascus purpureus is a yeast used commercially in the produ		AIPMT (Screening)-2012
	ol lowering statins	fill off (Servening) 2012
Yeast is used in the production of-	Bread and beer	AIPMT (Screening)-2012
The highest number of species in the world is represented by-		AIPMT (Screening)-2012
Saccharomyces cerevisiae is used in the formation of-	Ethanol	MGIMS Wardha-2003
•		AIPMT-1998
Aspergillus niger yields-	Citric acid	AIPMT-1998
Adhesive pad of fungi penetrate the host with the help of-		AIPMT-2001
	ssure and enzymes	ADEAMORT 2010
The sequence of the stages in the life cycle of Rhizopus after t	the reduction	AP EAMCET-2010
division of zygospore– Promycelium → germ sporangium → germ s	nores _> mycelium	
	Cologically similar	AP EAMCET-2008
Birds' nest fungi and Puffballs belongs to–	Basidiomycetes	AIPMT-2007
'Clamp connections' are observed in–	Basidiomycetes	JIPMER-2009
Edible part of mushroom is-	Basidiocarp	JIPMER-2009
Parasitic and saprophytic conditions are more familiar in–	Fungi	UP CPMT-2005
Powdery mildew of crops are caused by–	Ascomycetes	MGIMS Wardha-2010
LSD is obtained from-	Fungus	AFMC-2000
Fungal spores produced externally at the top of hyphae are–	Conidia	AFMC-2000
Morels and truffles groups of fungi are classified under–	Ascomycetes	AMU-2015
Multinucleated filament of Rhizopus is-	Coenocytic	BCECE-2005
A septum in Eumycota fungi, bearing a complex pore is called	ĩ	BHU PMT-2002
A septum in Euroyeota rungi, bearing a complex pore is cance	Dolipore septum	
Yeast shows formation of-	Pseudo mycelium	BHU PMT-2002
	acetyl glucosamine	Punjab MET-2003
Bacillus and Clostridium genera endospores are formed for-	Reproduction	Punjab MET-2003
Aflatoxins are mainly produced by-	Fungi	Rajasthan PMT-1996
Flagella present in Zoospores of Albugo are– Two dissimilar	8	Rajasthan PMT-1996
Water is not necessary for fertilization in-	Albugo	Rajasthan PMT-1996
Fungi produces spores, but lacks–	Vasculature	VMMC-2013
	thyl alcohol + CO ₂	MGIMS Wardha-2007
Sexual dimorphism is absent in-	Deuteromycetes	Manipal-2012
Gill of mushroom are meant for-	Reproduction	Manipal-2011
Mycobiont and phycobiont association is-	Helotism	AFMC -2011
The total number of ascospores in Penicillium are-	8	VMMC - 2014
•		AFMC -2011
Laboratory weed is-	Aspergillus	BHU PMT (Mains)-2011
Heterothallism is common in-	Mucor	BHU PMT-2001
Club fungi is included in-	Basidiomycetes	BHU PMT-2001
Trichoderma species are potentially useful as-	Biopesticides	DUMET-2010
Fungi differs from slime moulds by lacking of-	Flagellated spores	DUMET-2008
In Rhizopus, the fusion of two different thalli to form zygospo		AFMC-2002
	etangial copulation	
Agaricus is an–	Edible fungus	BHU PMT (Mains)-2008 JIPMER-2003, 2000, 1997
Biochemical and genetic work used extensively by-	Neurospora	Kerala PMT-2015
Diplanetism is exhibited by-	Saprolegnia	AMU-2011
Heterotrophic fungi can live as– Saprophytes, symbolic		AMU-2010
	-	MGIMS Wardha-2004
Beadle and Tatum to proposed one gene-one enzyme hypothe	sis organism was	

In the sporogonium of which plant, columella is present-	Rhizopus	MGIMS Wardha-2004
	-	UP CPMT-2004
The chemical produced by the host plant to protect themsel		Manipal-2000
infection is-	Phytoalexin	Karnataka CET-2003
Basidiospores are produced by-	Agaricus Penicillium	Uttarakhand-2005
Branched conidiophores are present in– In Rhizopus, dome shaped sterile portions are found on erec		AP EAMCET-2003
from stolons. These structures are referred to as-	Sporangiophores	AI EAMCE1-2004
The fungus that is edible–	Morchella	Haryana PMT-2009
		CG PMT-2009 MGIMS Wardha-2009
		Haryana PMT-2009
Early blight disease of potato is caused by-	Alternaria solani	VMMC-2014
In Puccinia, infection from barberry leaf to wheat plant is ca	aused by-Aeciospores	JIPMER-2001
A species of Neurospora which can grow on a simple minir as-	nal medium is known Prototroph	JIPMER-1995
Promycelium in Rhizopus develops from-	Zygospore	AP EAMCET-2001
Common bread mould is–	Rhizopus	CG PMT-2006
Zygophore, progametangium, gametangium, zygospore are	the successive	VMMC-2010
	oduction of Rhizopus	
Fungi considered as plant because of presence of-	Cell wall	VMMC-2010
When the mycelium of <i>Rhizopus oryzae</i> grows submerged such as sugar solution the young coenocytic hyphae dev		CMC Vellore-2007
into short multinucleate segment known as-	Oidia	
	ooflavin (vitamin -B ₂)	CG PMT-2011
Vascular wilts are caused by-	Erwinia pathogen	AP EAMCET-2000
Black coal like spots of Anthracnose in plants caused by-	Gloeosporium fungus	AP EAMCET-2000
Powdery mildew of wheat is caused by a species of-	Erysiphe	Rajasthan PMT-2011
Sulphuric acid is not produced by various species of-	Fungi	HP CET-2013 VMMC-2003
Fungal flagellum originates from-	Kinetosomes	Manipal-2010
Zygospore formation occurs in-	Mucor	Manipal-2010
Bakanae disease is caused by-	Fungus	BHU-PMT (Screening)-2008
Fruiting body of mushrooms is present in-	Fungi	BCECE-2004
Mycology is related with-	Fungi	BCECE-2004
This fungus is not edible–	Toadstool	BCECE-2009
Plant	ae	
Yeast poison themselves to death, because- Above 13% of	falcohol is hazardous	AP EAPCET-23.05.2023, Shift-II
A person suffering from Iodine deficiency may be recommended of this plant preparation-		AP EAPCET-23.05.2023, Shift-II
Hashish, Charas and Ganja are–	Cannabinoids	TS EAMCET-11.05.2023, Shift-I
The plants in the order of Ephemeral, Succulent and Non-su		TS EAMCET-11.05.2023, Shift-I
	ulus, Aloe, Casuarina	
The plant has lateral branches of one internodal length-	Eichhornia	AP EAPCET-12.07.2022 Shift-I
Jatropa and Pongamia plants are called as-	Petro-plants	TS EAMCET-31.07.2022 Shift-II
Plant in which floral buds store food material-	Agave	AP EAPCET-12.07.2022 Shift-I
The Campylotropous ovule is characterized by-		AP EAMCET-24.09.2020 Shift-I
17	nes towards funiculus	DI/D 2000
Green plants are-	Autotrophs Sphaerocarpos plant	BVP-2000 DUMET-2006
Con almomogramog for the first time and 1'	Subaerocarnos plant	
		MP PMT_2013
Polygonum type of embryo sac is- Monosp	oric octa (8) nucleate	MP PMT-2013 MGIMS Wardha-2012
Polygonum type of embryo sac is- Monosp Insectivorous plant is-	oric octa (8) nucleate Drosera	MGIMS Wardha-2012
Polygonum type of embryo sac is-MonospInsectivorous plant is-The most harmful weed is-	oric octa (8) nucleate Drosera Parthenium	MGIMS Wardha-2012 CMC Vellore-2011
Polygonum type of embryo sac is-MonospInsectivorous plant is-The most harmful weed is-The movement of hairs in Drosera is-	oric octa (8) nucleate Drosera Parthenium Thigmonastic	MGIMS Wardha-2012 CMC Vellore-2011 UP CPMT-2011
Polygonum type of embryo sac is-MonospInsectivorous plant is-The most harmful weed is-The movement of hairs in Drosera is-Aerenchyma provides-Buoyancy to	oric octa (8) nucleate Drosera Parthenium	MGIMS Wardha-2012 CMC Vellore-2011

A branch of botany concerned with the classification, nomencla		JIPMER-2000
	stematic Botany	
Utricaurens is called–	Stinging nettle	AMU-2003
Study of animal behaviour is-	Ethology	TS EAMCET-31.07.2022 Shift-II
In Caecilians, vertebrae are-	Amphicoelous	AP EAPCET-12.07.2022 Shift-I
Earthworm is not a–	Deuterostome	J&K CET-2011 HP CET-2011
The possible beneficial aspect of grazing animals is the– Addition of their exe	rata into the sail	HF CE1-2011
		hong
Notes on viruses, Viroids, F	rions and Lic	
The most suitable indicators of SO ₂ pollution in the environment	it is– Lichens	AIPMT (Re-Exam)-2015 UP CPMT-2007 AIPMT-1992 JIPMER-2005
LPP-1 is a-	Cyanophage	AIIMS-2014 BVP-2001 AIIMS-1995 Manipal-2001
Human Papilloma Virus and Chronic Hepatitis B are causing-	Cancer	TS EAMCET-11.05.2023, Shift-II
Bovine spongiform encephalitis disease is caused by-	Prions	AP EAMCET-11.07.2022 Shift-II
The virus which causes Bird flu is-	Hons H ₅ N ₁	TS EAMCET-30.07.2022 Shift-II
	• •	AP EAMCET-12.07.2022 Shift-II
	Femperate phage	
Mad cow disease in cattle and Cr Jacob disease in humans are d by-	Prion	NEET (Re-Exam)-04.09.2022
Prophage is viral genome- Incorporated and integrate	0	AP EAMCET-03.09.2021 Shift-II
Classification of Virus is done by-	ICTV	AP EAMCET-25.09.2020 Shift-II
61	ont or photobiont	MHT CET-07.10.2020 Shift-I
The capsid of tobacco mosaic virus (TMV) has capsomere num	_	AP EAMCET-24.09.2020 Shift-I KCET-2000
Mad cow disease in cattle is caused by an organism which have Abnormal	– lly folded protein	NEET (Odisha)-2019
HIV belongs to the genus-	Lentivirus	AP EAMCET-25.04.2018 Shift-II
Viroids differ from viruses in having- RNA molecules with	hout protein coat	NEET-2017
There exists a close association between the alga and the fungus	s within a lichen.	AIPMT-2005
The fungus- Provides protection, anchorage and absor		
Tobacco mosaic virus (TMV) genes are- Sing	le stranded RNA	AIPMT-1994 / BVP-2002
Viruses possess– Eith	ner DNA or RNA	AIPMT-1997
Most of the lichens consist of- Green algae	and ascomycetes	AIPMT-1997
Litmus is obtained from- Rocella montagnei and I		JIPMER-2005 HARYANA PMT -2005
Retrovirus have genetic material-	RNA	JIPMER-2008
The genetic material in tobacco mosaic virus is–	ss RNA	AIIMS-2016
	iration of lichens	AIIMS-2002
The antibiotics have no effect on viruses because–	in action of incircus	AIIMS-2015
Viruses show no metabo	lism of their own	AII\05-2013
Single stranded RNA not enclosed by protein coat is called –	Viroids	AIIMS-2003 Punjab MET-2006
Infectious proteins are present in-	Prions	AIPMT (Screening)-2010
	Iolecular biology	AIPMT (Screening)-2010
Virus envelope is known as-	Capsid	AIPMT (Screening)-2010
	lonia rangiferina	JIPMER-2004
There exists a close association between the alga and the fungus	0	JIPMER-2007
The fungus- provides protection, anchorage and absorp		
A term helotism is used for the symbiosis of-	Algae and fungi	AP EAMCET-2007
Nucleic acid in HIV–	ss RNA	AIPMT-1998
	55 11171	

	and air pollution	Lichens can be used as– Bio-indi
AIPMT-2001	ds DNA	Cauliflower mosaic virus contains–
AP EAMCET-2011		The latest view for the origin of viruses is-
	nts of the nucleic	These are modified plasmids, which are inf
	acids of the host	
Karnataka CET-2009	Protein particles	The agents which are known to cause CJD are-
AP EAMCET-2013	ains 2130	The total number of amino acids when the caps
	336540	capsomeres is-
UP CPMT-2014	man and Morris	Cyanophages discovered by-
WB JEE-2006	DNA and protein	The virus, that infects bacteria, are made up of-
JCECE-2008	ted viral genome	Provirus is-
BVP-2010	Usnea	A lichen responsible for forest fire is-
Rajasthan PMT-1996	Akaryota class	Virus is classified in-
MGIMS Wardha-2014		The protein that reproduce within the living cel
Manipal-2011	Bacteriophage	Helical contractile sheath is found in–
BHU PMT (Mains)-2011	Trebouxia	The common phycobiont of lichens is-
Karnataka CET-2002		The process which cannot takes place in the abs
DUMET-2010	le-stranded RNA	
DUMET-2010	One	The number of linkage group(s) present in <i>Esch</i>
DUMET-2008	Virus	Rabies is caused by–
AFMC-2007		Small proteins produced by vertebrate cells nat
		infections and which inhibit multiplication of v
Rajasthan PMT-2010		Viruses that infect bacteria multiply and cause
AMU-2011	DNA	Animals virus contains mostly–
AMU-2011	RNA	The genetic material in influenza virus is–
AMU-1998	le stranded DNA	Gemini viruses are plant viruses with–
Rajasthan PMT-1998	Nucleoproteins	Bacteriophage is consist of–
AP EAMCET-2001		The virus which causes ring spot diseases in ch
	Pollen grains	The thus thich eauses hig spot alseases in en
AFMC-2004	-	Fungus/lichens which grow on wood is-
	Lignicolous	Fungus/lichens which grow on wood is– Basic structure of protein was given by–
AFMC-2004	Lignicolous F. Sanger	Basic structure of protein was given by-
AFMC-2004 CG PMT-2006	Lignicolous F. Sanger Mycoplasma	Basic structure of protein was given by– The smallest organisms, which cause disease an
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008	Lignicolous F. Sanger	Basic structure of protein was given by-
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT-2004	Lignicolous F. Sanger Mycoplasma Living tissue	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT-2004 BHU PMT (Screening)-2011	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 BHU PMT (Screening)-2011 DUMET-2009	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 BHU PMT (Screening)-2011 DUMET-2009	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2008	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus I mineral present	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand, a
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2008 Haryana PMT-2003	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus 1 mineral present Viruses	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand, a Interferons are synthesized in response to–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2003 Haryana PMT-2003	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus 1 mineral present Viruses Viral	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand, a Interferons are synthesized in response to– AIDS, Rabies pair of disease is–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2003 Haryana PMT-2003 CG PMT-2010	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus I mineral present Viruses Viral T ₄	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand, a Interferons are synthesized in response to– AIDS, Rabies pair of disease is– T series bacteriophage possess complex tail structure
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2008 Haryana PMT-2003 CG PMT-2010 CG PMT-2010	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus 1 mineral present Viruses Viral	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand , a Interferons are synthesized in response to– AIDS, Rabies pair of disease is– T series bacteriophage possess complex tail stru A virus that can reproduce without killing its ho
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2003 Haryana PMT-2003 CG PMT-2010 CG PMT-2010	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus I mineral present Viruses Viral T ₄	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand, a Interferons are synthesized in response to– AIDS, Rabies pair of disease is– T series bacteriophage possess complex tail stru A virus that can reproduce without killing its he Dulbecco is credited to show that Viruses are th
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2008 Haryana PMT-2003 CG PMT-2010 CG PMT-2010	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus 1 mineral present Viruses Virus Temperate virus	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand , a Interferons are synthesized in response to– AIDS, Rabies pair of disease is– T series bacteriophage possess complex tail stru A virus that can reproduce without killing its ho
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 VMMC-2010 Haryana PMT-2003 Haryana PMT-2003 CG PMT-2010 CG PMT-2010	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid obligate parasites rus and reovirus I mineral present Viruses Viral Temperate virus Cancer	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand, a Interferons are synthesized in response to– AIDS, Rabies pair of disease is– T series bacteriophage possess complex tail stru A virus that can reproduce without killing its he Dulbecco is credited to show that Viruses are th
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 UMET-2009 VMMC-2010 Haryana PMT-2003 Haryana PMT-2003 CG PMT-2010 CG PMT-2010 CG PMT-2014 AP EAMCET-1999	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid bbligate parasites rus and reovirus I mineral present Viruses Viral T4 Temperate virus Cancer Cocoa	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand , a Interferons are synthesized in response to– AIDS, Rabies pair of disease is– T series bacteriophage possess complex tail stru A virus that can reproduce without killing its he Dulbecco is credited to show that Viruses are th Virus cause swollen shoot disease in–
AFMC-2004 CG PMT-2006 BHU-PMT (Screening)-2008 Uttarakhand PMT-2008 BHU PMT (Screening)-2011 DUMET-2009 DUMET-2009 OUMET-2009 VMMC-2010 Haryana PMT-2003 Haryana PMT-2003 CG PMT-2010 CG PMT-2010 CG PMT-2010 CMC Vellore-2014 AP EAMCET-1999 VMMC-2007	Lignicolous F. Sanger Mycoplasma Living tissue Polio virus A viroid bbligate parasites rus and reovirus d mineral present Viruses Viral T4 Temperate virus Cancer Cocoa 300 × 20 nm	Basic structure of protein was given by– The smallest organisms, which cause disease an Virus multiplies in– Smallest animal virus is– Potato spindle tuber disease is caused by– Viruses are– The pair that shows the double stranded RNA– W Bio-indicators are used for– Oxygen demand, a Interferons are synthesized in response to– AIDS, Rabies pair of disease is– T series bacteriophage possess complex tail structure A virus that can reproduce without killing its her Dulbecco is credited to show that Viruses are the Virus cause swollen shoot disease in– Tobacco mosaic virus is a tubular filament of single structure Potato spindle tuber disease in– Tobacco mosaic virus is a tubular filament of single structure Tobacco mosaic virus is a tubular filament of single structure T series and the structure str

03.

PLANT KINGDOM

3.1 CLASSIFICATION	■ Ectocarpus is- Filamentous brown algae
■ Laminarin is the stored food in- Dictyota	■ In algae, the photosynthetic pigments are present in-
of classification involves usage of one or few	Chloroplast
morphological characters for grouping of organisms-	 Peat is obtained from- Sphagnum Kelps are massive- Brown algae
Artificial system	
 Classification of organisms on the basis of fossils 	Along has similar sized non flagellated semators
record that play important role in elucidation of	 Algae has similar sized non flagellated gametes-
evolutionary relationship is- Phylogenetic system	Spirogyra
■ The earliest system of classification used-	Diatoms pile up at the bottom of water reservoirs and form his house on the bottom of water reservoirs and
Only superficial morphological characters	form big heaps as- Their walls are embedded
■ Classification system, given by George Bentham and	with silica
Joseph Dalton Hooker is- Natural Classification	 Members of chrysophytes- Are found only
System	in fresh water
■ Taxonomy is based on chromosome number,	Cell wall of diatoms- Silica deposition
structure, behaviour is known as- Cytotaxonomy	■ Most of have two flagella, one lies
 Artificial systems of classification were based upon- 	longitudinally and the other transversely, in a furrow
Vegetative characters, Androecium structure,	between the wall plates- Dinoflagellates
Habit and habitat	Dinoflagellates are mostly– Marine and
	photosynthetic
• A system of classification in which a large number of traits are considered is- Natural system	 Diatoms do not decay as readily as most other algae because- They have siliceous cell walls
• Each character is given equal importance and at the	 Responsible for death of large numbers of marine
same time hundreds of characters can be considered	animals such as fishes– Red dinoflagellates
in– Numerical taxonomy	(Gonyaulax)
• uses the chemical constituents of plants to	■ Groups of organisms are included under
resolves confusions– Chemotaxonomy	chrysophytes– Diatoms and desmids
 Cytotaxonomy is based on- 	(golden algae)
Structure and behaviour of chromosomes	■ The cell wall is composed of two thin overlapping
3.2 ALGAE	shells, fit together like a soap case, in- Diatoms
	 Red tides in warm coastal water develop due to the
 Reproduction is synonymous with growth- 	abundance of– Dinoflagellates
Chlorella and Amoeba	■ Cyanobacteria also referred to- Blue-green algae
• Life cycle is represented by fucus- Diplontic	Cyanobacteria are- Photoautotrophs
■ The formation of gametes in gametophyte of	■ Nuclear membrane is absent in- Nostoc
bryophyte, pteridophyte and gymnosperm occurs by-	(prokaryotes)
Mitosis in all	■ Algae have cells made up of—
 Gracilaria and Gelidium reproduce sexually by– 	Cellulose, galatians and mannans
Rhodophyceae (non-flagellate gametes)	■ An example of colonial alga is- Volvox
• Organisms, having chlorophyll a, c and fucoxanthin	■ plants is monoecious- Chara
in their double membranous organelles- Also have	■ Life cycles of Ectocarpus and Fucus respectively,
mannitol and laminarin starch as their	are– Haplodiplontic, diplontic
reserve food	Algae contains mannitol as reserve food material—
■ An alga as the source of protein is- Chlorella	Ectocarpus
Brown algae is characterized by the presence of-	■is wrong about Chara–
Fucoxanthin	Upper antheridium and lower oogonium
• Algae with floridean starch as reserve material is also	 Isogamous condition with non-flagellated gametes is
characterized by –	found in-
Rhodophyceae (nonflagellate nature)	 Holdfast, stipe and frond constitute the plant body in
■ Algae, bryophytes and pteridophytes resemble with	case of- Phaeophyceae
each other in– Dependence on water for	 Cyanobacteria are classified under- Monera
fertilisation	 Laminarin and mannitol, the reserve food of brown
 Haplontic life is is represented by– Volvox 	algae, are- Complex carbohydrates
 An alga exhibits diplontic life cycle is- Fucus 	 Dictyota belongs to- Phaeophyceae
 Antherozoids represents- Motile male gametes 	 Photosynthetic pigments of Rhodophyceae (red
	algae)– chl a, chl d and phycoerythrin
■ In gracilaria, sexual reproduction is- Oogamous	aigae)– ciii a, chi u anu phycoerythrin

 Phycoerythrin is present in- Polysiphonia Phycoerythrin, chlorophyll a chlorophyll d are characteristics of- Rhodophyceae Common example of red algae is- Porphyra, Polysiphonia Belong to red algae- Gelidium, Porphyra Gracilaria is a- Red alga Type of sexual reproduction is found in Volvox- Oogamous Agar-agar is commercially obtained from- red algae 	 Cyanobacteria are classified under kingdoms– Monera Algae forms motile colony is– Volvox In green algae, vegetative reproduction usually takes place by– Fragmentation, Formation of different types of spores Chlorophyll a, c, carotenoids and xanthophylls are present in– Phaeophyceae Pyrenoids are made up of– Proteinaceous centre surrounded by starchy sheath Carrageen is a water holding substance and obtained from– Red algae Main pigment in phaeophycene (Brown algae) is– Fucoxanthin In green algae, the plant body is usually attached to the substratum by a– Holdfast Food reserve in Rhodophyceae (red algae) is– Floridean starch Some species of marine algae are used as food. These are– Porphyra, Laminaria, Sargassum Kelps may reach a height of– 100 metres Fusion of two morphologically similar but physiologically different gametes- <i>Spirogyra</i>, Ulothrix Agar is an important commercial product which is produced by two Red Algae, These algae are– Gelidium, Gracilaria The chlorophyll pigments present in chlorophyceae (Green Algae) are– Chlorophyll a and b Cell wall of Spirogyra is composed of– In Gracilaria, sexual reproduction is– Ogamous Chlamydomonas, Volvox, Ulothrix, Spirogyra and Chara are examples of– Green algae is– Non-flagellated' gametes occur in– Spirogyra Tho rhagellate d'gametes occur in– Sargassum All algae have two photosynthetic pigments in commo– Chlorophyll a and carotenes Groups of algae, belongs to class rhodophyceae– Gracilaria, Gelidium, Orphyra, Polysiphonia Sets-belongs to tlass rhodophyceae– Gracilaria, Gelidium, Porphyra, Polysiphonia Sets-belongs to tlass of algae– Volvox, Spirogyra, Chlamydomonas The thallus organisation of Volvax is– Colonial and Motile
 Dinoflagellates are mostly- 	Motile 3.3 BRYOPHYTES
Marine & photosynthetic A slide under microscope shows features—	The sporophyte is non foliar and partially dependent
Dinoflagellate	on gametophyte for water and minerals is - Funaria F unaria, Polytrichum and Sphagnum should have–
 That group of organisms is represented— Dinoflagellates 	Diploid Zygote
 Red tides in warm coastal water develop due to the abundance of- Dinoflagellates 	 Inconspicuous thalloid gametophyte is - Prothallus Starting of megaspore is a preparation of few heterosporous species to move towards seed habit -
 Cyanobacteria are used in agricultural fields for crop improvement because they cause- N₂ fixation 	In- situ germination
■ In Anabaena and Nostoc, are the sites for	■ The bryophytes divided into- Liverworts and

 Bryophyta in plant kingdom is called – Amphibians The sperms can easily reach upto egg in the 	 The sporophytic phase in Funaria is well developed and composed of— Foot, Seta and Capsule
archegonium in bryophyta are dependent on - Water	■is not a mass– Marchantia
 Moss peat is used as a packing material for sending 	 Funaria requires water because-
flowers and live plants to distant places because-	Fertilisation occurs in water only
It is hygroscopic	■ A moss sperm moves by means of- Flagella
• The dominant photosynthetic phase in the life cycle	■ Peat is obtained from- Sphagnum
of pteridophyta is equivalent to the-	■ Liverwort reproduce asexually by-
 Gametophytic phase of bryophyta possess vascular tissues but lacks seeds- Ferns 	Gemmae, Fragmentation
 possess vascular insides but lacks seeds- Ferris Liverworts reproduce asexually by- Gemmae, 	■ In mosses the sex organs are present in the-
Fragmentation	 Antherozoids represents- Motile male gametes
■ In mosses the sex organs are present in the-	Archegonium is– Female sex organ
Leafy stage	 Plant succession on bare rocks or soil an important
■ is responsible for peat formation- Sphagnum	role of- Bryophytes
■ Compared with the gametophytes of the bryophytes,	■ Mosses are attached to substratum by– Rhizoids
the gametophytes of vascular plants tend to be-	 Mosses occur in moist places because they-
Smaller and to have smaller sex organs	Require water for the transport of gametes
■ If the diploid number of a flowering plant is 36, what	■ Foot, seta and capsule are the parts of-
would be the chromosome number in its endosperm-	Sporophyte in bryophytes
Factor Free Protonema is - Haploid and is found in mosses	Bryophytes that prevent soil erosion by forming
 A plant shows thallus level of organisation. It shows 	dense mats on the soil are— Mosses The packing material for trans-shipment of living
rhizoids and is haploid. It needs water to complete	The packing material for trans-shipment of living material is obtained from- Sphagnum
its life cycle because the male gametes are motile. It	 Ancestors of land plants were- Green algae
may belong to- Bryophytes.	 Sporophyte of liverworts bears spores in- Capsule
■ A gametophytic free living structure formed in	 Bryophytes are also called amphibians of the plant
pteridophytes is a - Prothallus	kingdom because– They require both
Bryophytes include- Mosses and liverworts	land and water for survive
■ The bryophytes are usually found in–	Sex organs are found on specialized stalked sexual
Damp and shaded areas	receptacles called antheridiophore and
 Resemblances between algae and bryophytes include– Thallus-like plant body, lack of 	archegoniophore in− Marchantia ■ Branched rhizoids and leafy gametophyes are
vascular tissue, autotrophic nutrition	Branched rhizoids and leafy gametophyes are characteristic of – Some bryophyte like mosses
 The prominent phase in the life cycle of bryophytes 	3.4 PTERIDOPHYTES
is- Gametophyte	
■ The female sex organ in Polytrichum and Funaria is	A heterosporous pteridophyte is- Salvinia
– Archegonium	 Ginger and Equisetum– Similar in having rhizome Main plant body is sporophyte which is differentiated
 Multicellular sex organs are found in- 	into true stem roots and leaves -
Funaria, Polytrichum, Sphagnum	Salvinia and Selaginella
The Zygote in bryophytes develops in the-	 Pteridophytic sporophytes bear sporangia that are
Archegonium	subtended by leaf like appendages- Sporophylls
■ The sporophyte is attached to the gametophyte in-	 Important in the development of seed habit-
■ Sporophytes are dependent upon gametophytes in-	Heterospory
Sporophytes are dependent upon gametophytes in- Bryophytes	 In pteridophytes, reduction division occurs when-
 Peat, obtained from Sphagnum moss is used as- 	Spores are formed
Fuel	 Haplo-diplontic condition is exhibited by-
■ Asexual reproduction in liverworts takes place by-	■ The main plant body is differential into true root.
Fragmentation of thalli and gemmae formation	stem and leaves in– Pteridophytes
 Gemmae are asexual reproductive bodies of- 	■ In pteridophytes, fusion of gametes takes place in-
Liverworts	Archegonium
• Gemmae are the specialised structures produced in	■ In selaginella the embryo develops into- Sporophyte
liverworts. These are- Green, multicellular,	■ In pteridophytes, the megaspore germinates to form-
asexual buds which develop in gemma cups	Female gametophyte
Gemmae are multicellular green structures for vegetative propagation. These are found inside	 The development of young embryos of pteridophytes
gemma cups in– Marchantia thallus	within the female gametophytes is a precursor to the-
 Includes liverworts and mosses respectively- 	Seed habit
Marchantia, Funaria	Genera like Selaginella, Salvinia produce two kinds of spores. Such plants are known as
■ Funaria, the haploid structure is- Protonema	of spores. Such plants are known as-
	Heterosporous

In pteridophytes, a spore germinates to produce-		3.5 GYMNOSPERMS
Prothallus	∎ Ir	n gymnosperms, branched stem is found is-
The spread of living pteridophytes is limited and is		Pinus and Cedr
restricted to narrow geographical region because-	■ P	roduce ovules which are borne on megasporophyll
Gametophytic growth needs cool,		Ginkgo, Pinus, Selaginella and Cyc
damp and shady places		ommon in all the three, Funaria, Dryopteris and
There is requirement of water of fertilisation		inkgo– Presence of archegon
In pteridophytes, prothallus produces-		emale strobili are present in- Some gymnospern
Antheridia and archegonia	■ G	ymnosperms differ from angiosperms in the-
The heterosporous pteridophytes are-		Formation of endosperm before fertilization
Selaginella and Salvinia		onstitutes the dominant vegetation in cold
Heterosporous pteridophytes show certain		egions– Gymnospern
characteristics, are precursor to the 'seed		Monoecious plant– Pin
habit' in gymnosperms. One of such characteristics		ucalyptus is different from Cedrus in the presen
is- Development of embryo inside the	-	f- Triple fusio
female gametophyte		bymnosperms have- Naked seed pla
Does not belong to class Pteropsida- Selaginella	• n	has both the male and female cones on satisfied to the second sec
Evolutionatily, the first terrestrial plants to possess		
vascular tissues are- Pteridophytes	• C	oralloid roots have a symbiotic association with-
The main plant body in Pteridophyte is-	_ т	Nitrogen-fixing cyanobacter
Sporophytic	∎ T	he cones bearing microsporophylls are known as-
Pteropsida includes – Pteris and Adiantum	- /	Male strob
Equisetum belongs to Sphenopsida		Conifers are adapted to tolerate extremention extrementation of the conditions because of Thick cution
The dominant phase in the life cycle of a		The giant Redwood tree (Sequoia sempervirens)
pteridophyte is- Sporophyte		a/an– Gymnosper
Heterosporous pteridophytes is-		Plants of this group are diploid and well adapted
Selaginella and Marsilea etc.	- 1	extreme conditions. They grow bearing sporophy
In pteridophytes, the sporophyte is produced by the–	i	n compact structures called cones. The group
Zygote		reference is- Gymnosper
Pteridophyte is not a- Ginkgo	I I	Plants posseses seeds but not fruits are-
In pteridophytes, water is required for transfer of–		Gymnosperi
Antherozoids		Gymnosperms do not include- Her
Economic importance of pteridophytes in–		Mycorrhizal roots of are associated w
Medicinal ornamentals, soil binder		some fungal symbionts- Pin
		Coralloid roots of have symbio
Fusion of male gamete with the egg present in the archegonium result in the formation of- Zygote		association with N_2 – fixing cyanobacteria– Cyc
		Gymnosperms has branched stems- Pinus, Cedr
		The leaves of gymnosperms are well-adapted
Heterosporous is- Salvinia		withstand extremes of temperature, humidity a wind, because of features- Needle-like leav
Pteriophytes include– Horsetails, Ferns		Thick cuticle, Sunken stoma
Pteridophyta differs from bryophyta in having-		Gymnosperms are all– Heterosporo
Vascular tissue		In Pinus, male strobilus bears a large number of-
Plants having spores, xylem and phloem but lacking		Microsporophy
seeds are- Pteridophytes		Heterospory is found in some members of
Macrophyllous leaves are found in- Ferns		and all members of
Sporangia produce spores in spore mother cells,		Pteridophyta, Gymnosperm
method is- Meiosis		Structures are haploid in gymnosperms-
Class lycopsida includes- Selaginella, Lycopodium		Pollen grain, megaspo
In pteridophytes, zygote results in the production of	∎.	
multicelluar well-differentiated, dominant phase		Gymnosper
which is- Sporophyte		Male cones and megasporophylls borne on different
Seed habit is linked with– Heterospory	t	rees in- Cyc
Development of Seed habit considered-	■ .	is not the characteristic of Cycas-
Heterospory		Absence of archego
Genera like Selaginella and Salvinia produces spores	∎ F	Fruits are not found in gymnosperms because–
known as- Heterosporous		They have no ova
Leaf like structure in Pteridophytes that bear spores		Gymnosperms are called naked seeded plants due
are called– Sporangia	t	he absence of- Ovary w
		Antheridium is not found in- Gymnosperi
Prothallus represents the-		
Gametophytic phase in Pteridophytes		
·	а	In coralloid roots, roots are short and irregular arranged and exist in symbiotic association with– Cyanobacter

 Cycas male cones and megasporophylls are borne on different trees Megasporangium in Gymnosperms is also called as- Female strobili A plant having seeds but lacking flowers and fruits belongs to- Gymnosperms The gymnosperms are	 Water is essential to develop a new plant body with respect to sexual reproduction. This statement is true plant group for— Bryophytes & Pteridophytes Some plant groups exhibit intermediate condition with respect to life cycle pattern. Which characteristic will not be exhibited by such kind of plant— Meiosis takes place in zygote Funaria requires water because— Fertilization occurs in presence of water only Angiosperms have dominated the land flora primarily because of their— Power of adaptability in diverse habitat Blue green algae store food in the form of α-granules and β-granules, α-granules are composed of fat droplets. This cyanophycean starch is structurally related to— Glycogen The members of rhodophyceae are commonly called red algae because— They show prodominance of r-phycoerythrin in their body A plant shows sporophyte as a main generation. Its gametophyte shows rhizoids and is haploid. It needs water to complete its life cycle because the male gametes are motile. Identify the group it belongs— Bryophytes Karyogamy and meiosis takes place in the basidium of— Puccinia and Agaricus Fusion of two motile gametes which are dissimilar in size is termed as— Anisogamy A plant shows thallus level of organisation. It shows rhizoids and is haploid. It needs water to complete its life cycle because the male gametes are motile. Identify the group it belongs— Bryophytes Fusion of two motile gametes which are dissimilar in size is termed as— Anisogamy A plant shows thallus level of organisation. It shows rhizoids and is haploid. It needs water to complete its life cycle because the male gametes are motile. Identify the group belongs to— Bryophytes Plants of this group are diploid and well adapted to extreme conditions. They grow bearing sporophyles in compact structures called cones. The group in reference is— Gymnosperms The embryo s
■ Endosperm of angiosperm is- Triploid	• Puccinia and Agaricus • Fusion of two motile gametes which are dissimilar in
 Antheridia and archegonia are absent in- 	■ A plant shows thallus level of organisation. It shows
 An exceptionally large group of plants occurring in wide range of habitats– Angiosperms The role of double fertilization in angiosperms is to 	 its life cycle because the male gametes are motile. Identify the group belongs to- Bryophytes Plants of this group are diploid and well adapted to
Polar nuclei fuse to produce-	in compact structures called cones. The group in reference is- Gymnosperms
■ Angiosperms differ from gymnosperms as they	7 cells and 8 nuclei
as- Secondary nucleus	
 Seeds are present inside the fruit wall in– Angiosperms Embruo see represente Famela gemetenbute 	 Algae produce Carrageen is- Red algae Genera like Selaginella and Salvinia produce two
 Embryo sac represents- Female gametophyte The smallest angiospermic flower is- Wolffia Angiosperms differ from gymnosperms in having- 	kinds of spores. Such plants are known as- Heterosporous
 Fruits Double fertilization and triple fusion are 	 Gemmae are present in– The pairs is of unicellular algae–
 characteristics of – Angiosperms Seed formation in angiosperm for necessary – 	Chlorella and Spirulina Floridean starch has structure similar to–
Ovule, Pollination, Double fertilization	Amylopectin and glycogen Strobili or cones are found in- Equisetum
 In angiosperms, ploidy of embryo sac is- Haploid 3.7 PLANT LIFE CYCLES 	 Phycoerythrin is the major pigment in- Red algae From evolutionary point of view, retention of the
 Life cycle of gymnosperm is- Life cycle is exhibited by fucus- Diplontic 	female gametophyte with developing young embryo on the parent sporophyte for some time, is first
■ All plants exhibit alternation of generations. This	observed in- Pteridophytes
means their life cycle- Has both a multicellular haploid stage and a multicellular diploid stage	Pinus seed cannot germinate and established without fungal association. This is because-
■ The life cycle of Ectocarpus and Polysiphonia is-	It has obligate association with mycorrhizae
Haplo-diplontic	

EXAM POINT	
Some Basic Classification of Plant	
Angiosperms and Gymnosperms are grouped under- Phanerogams	VMMC-2012, 2002, JIPMER-2009, CG PMT-2008 Uttarakhand PMT-2008 BVP-2007, BHU PMT-2004
Linnaeus system of plant classification is based on- Morphological characters	Rajasthan PMT-2009 CMC Vellore-2009 Punjab MET-2009 UP CPMT-2009
Natural system of classification proposed in- Genera plantarum	TS EAMCET-10.05.2023, Shift-II
Four plants are observed 'A' is a primitive land plant. 'B' is embryophytic archegoniate phanerogam. 'C' is autotrophic thallophyte showing haplontic lifecycle. 'D' is nonflowering plant with heterosporous sporangium. The plants found respectively are- Marchantia, Ginkgo, Spirogyra, Selaginella	AP EAPCET-23.05.2023, Shift-I
Benthem & Hooker divided plants into 3 classes which includes–	AP EAMCET-03.09.2021 Shift-II
Dicotyledonae, Gymnospermae, Monocotyledonae	AP EAMCET-03.09.2021 Shift-I
One of the following scientists was the earliest to attempt more scientific basis for classification– Aristotle	AF EAMICE 1-05.09.2021 Shift-1
The book 'Die Naturlichen Pflanzenfamilien' was written by-Engler and Prantl	AP EAPCET-07.09.2021 Shift-I
Systema Naturae books were contributed by– Linnaeus	AP EAMCET-05.10.2021 Shift-I BCECE-2012
New systematics introduced by Sir Julian Huxley is also called- Biosystematics	AP EAMCET-25.09.2020 Shift-I
Floral characters such as single whorl of perianth or no perianth and unisexual flowers pollinated by wind were considered as primitive characters in	SRM JEEE-2019
The placement of order Ranales in the beginning is a merit in the– Bentham and Hooker's system of classification	Kerala PMT-2008
In Bentham and Hooker's system of classification the sub-class polypetalae and Gamopetalae have the cohorts in the ratio of-	AP EAMCET-2014
Chromatophores take part in- Photosynthesis	AIPMT (Re-Exam)-2015
Tracheophyta consists of- Pteridophytes, gymnosperms and angiosperms	UP CPMT-2009
Plants reproducing by spores such as mosses and ferns are grouped under the general term-	AIPMT-2003
Organisms which obtain energy by the oxidation of reduced inorganic compounds are called- Chemoautotrophs	AIPMT-2002
Artificial system of classification was first used by– Linnaeus	AIIMS-1999,1998 AIPMT-1989
Phylogenetic classification is one which is based on- Common evolutionary descent	AIPMT-1994
Phytochrome is found in– Bryophytes, pteridophytes and angiosperms	AFMC-2003
Father of botany is- Theophrastus	Punjab MET-2008
A group of plants which are autotrophs, their sex organs are non-jacketed and whose zygotes secrete thick wall are called– Thallophytes	Punjab MET-2007
Systema naturae is concerned with-Classification of plants and animals	CG PMT-2005
Five kingdom classification includes– Monera, Protista, Fungi, Plantae, Animalia	DUMET-2006
Mosses are- Amphibians of plant kingdom	Karnataka CET-2013
The natural system of classification proposed by– Bentham and Hooker	BVP-2011 DUMET-2003, AIPMT-1988
Oswald and Tippo has divided plant kingdom in to- Two sub kingdoms	Rajasthan PMT-1997
The basis of phenetic classification is– Observable characteristic of existing organisms	Manipal-2014
Sub-phyla are present in tracheata according to Tippos classification of kingdom plantae are-	Manipal-2001
Botanical herbarium of India are classified according to classification of– Bentham and Hooker	Rajasthan PMT-2001

prothallus of a vascular cryptogam, the anthercent times. As a result–	ozoids and eggs mature at If-fertilization is prevented	BCECE-2012
vision of the plant kingdom into Prokaryota an eter of-	-	CG PMT-2004
- Inferae belongs to-	Gamopetalae	BVP-2011
gonia are found in–	Gymnosperm	BVP-2011
am and Hooker proposed their classification in	, i	WB JEE-2008
em of classification in which a large number of		Punjab MET-2010
	Natural system	-
lants can be conclusively said to belong to the	÷	AIPMT-2007
,	each other and form seeds	
ding to classification of Ostwald Tippo; plant k	ingdom is divided into-	UP CPMT-2014
Thal	llophyta and Embryophyta	
othalism was discovered by-	Blakeslee	UP CPMT-2006
dical study of plants, dealing with identificatio	n, naming and	J&K CET-2009
ication-	Systematic botany	
nt which lives for a few days is called–	Ephemeral	JCECE-2010
sification in plant life appeared		Manipal-2007
Due to long perio	ods of evolutionary changes	
fication based on chromosome number is-	Cytotaxonomy	BCECE-2005
ospory is the production of-	Large and small spores	Punjab MET-2003
ospory is considered important in the developm	ent of- Seed habit	Kerala PMT-2015
on-nucleated, unicellular organisms of Whittak	er's (1969) classification are	CG PMT-2007
ed in the kingdom-	Monera	
ingdom system of classification was given by-		Haryana PMT-2002
ingdom scheme to classify living beings has be	1 1 2	CG PMT-2011, 2009
	R. H. Whittaker	
n of classification proposed by Linnaeus- Sex	cual system of classification	Haryana PMT-2008 CG PMT-2006
uts on plants in produced by-	larva of dipterous insects	BHU PMT (Screening)-2011
f the example of non- embryophyta is	Ulothrix	BHU PMT (Screening)-2011
tham and Hooker's classification the way of ar		AP EAMCET-2002
of polypetalae reflects. This gradual evolution		
	Hypogyny to epigyny	
y is father of–	Neo-taxonomy	Haryana PMT-2008
inson taxonomist described classification of pla		BVP-2013
	Flowering plant	
ook Historia Plantarum was written by-	Theophrastus	AP EAMCET-2000
ascular cryptogames are-	Pteridophytes	Rajasthan PMT-2000
New Systematic was given by-	Julian Huxley	BCECE-2008
evergreen vegetation of broad sclerophyllous l		Haryana PMT-2011
nt resinous plants is known as-	Chaparral vegetation	
enera that lacks cotyledons but is placed with d ication is-	ictoyledonous plants, in Cascuta	AMU-2001
	Algae	
	Igae (Gracilaria, Gelidium)	VMMC-2012, 2011, 2010 UP CPMT-2012, 2008
		BVP-2012, JIPMER-2009
		MGIMS Wardha-2008 CMC Ludhiana-2008
		AFMC-2003, BCECE-2002
		BVP-2001
		Rajasthan PMT-2006, 2000
		AMU-2006, 1996, 1995

Laminaria is a–	Phaeophycean algae	Kerala PMT-2012
		UP CPMT - 2010 Punjab MET - 2009
		AFMC-2000, BVP-2000
Zygote of Spirogyra produces four haploid nuclei, in whic	h- One is functional	Uttarakhand PMT-2004
		Manipal-2004
	т • •	UP CPMT-2001, AMU-2005 CMC Vellor -2013
Iodine is obtained from-	Laminaria	Haryana PMT - 2013
		MGIMS Wardha-2008
		JIPMER-2008
Spiragerra is Imourn as	Pond silk	BHU PMT (Screening)-2007 HP CET-2011, CG PMT-2010
Spirogyra is known as-	Pona siik	BCECE-2006, VMMC-2005 AMU-2004
Cephaleuros is a-	Parasitic alga	JIPMER-2018
	i ai asitit aiga	Rajasthan PMT - 2005
		Uttarkhand-2005
Floridean starch is the stored food in-	Gracilaria	BVP - 2002, BHU PMT-2001 TS EAMCET-10.05.2023, Shift-II
		TS EAMCET 10.05.2023, Shift-I
Female sex organ in Polysiphonia of Rhodophyceae–	Carpogonium	
Phaeophyceae and Rhodophyceae classes of algae possess		RE-NEET (UG)-06.06.2023 (Manipur)
Pigment fucoxanthin and pigment phyce		Karnataka CET - 2023
Reserve food in the form of floridean starch and the solub found in-	Rhodophyta	AMU-1998
Agarose is a natural polymer extracted from–	Sea Weeds	AP EAPCET-11.07.2022 Shift-I
Air bladders are found in the following plant–	Fucus	AP EAPCET-11.07.2022 Shift-I
Hydrocolloid carrageen is obtained from-	Rhodophyceae	NEET-2022, 2021
In Oogamy, fertilization involves–	Knouopnyceae	AP EAMCET-03.09.2021 Shift-II
A large non motile female gamete and a small	all motilo malo gamoto	AI EAWCE1-03.07.2021 Smit-II
Ectocarpus algae contains mannitol as reserve–	Food material	NEET-2021
The plant body having holdfast, stipe and frond is a charac		Karnataka CET-2021
	inaria (Phaeophyceae)	
Female reproductive structure of chara is-	Nucule	AP EAMCET-25.09.2020 Shift-II
*	vlopectin and glycogen	NEET-2020 Phase-I BHU PMT (Mains)-2011
Isogametes are found in-	Cladophora	GUJCET-2020
The major pigments present in the members of Rhodophy	-	TS EAMCET-03.05.2018 Shift-I
	, d and phycoerythrin	AFMC - 2007, AIPMT-2000
Shape of chloroplast of Ulothrix is-	Girdle-shaped	JIPMER-2018
Eyespot is seen in–	Chlamydomonas	JIPMER-2018
Palmella stage is present in–	Chlamydomonas	JIPMER-2018, BHU PMT - 2002
Motile zoospores are produced by-	Chlamydomonas	MHT CET-2017
Rhodophyceae class of Algae reproduces asexually by nor	•	Karnataka CET-2017
sexually by-	Non-motile gametes	
Mac-Conkey medium is an example of-	Differential medium	SRM JEEE -2017
	Anabaena	SRM JEEE -2017
A nitrogen fixing blue green alga is-		SRM JEEE -2017
A nitrogen fixing blue green alga is- The simple type of plant body in which a single cell perfo	rms all the vital	SKWI JEEE -2017
A nitrogen fixing blue green alga is– The simple type of plant body in which a single cell perfor functions of life is referred to as–	rms all the vital Unicellular	SKW JEEE -2017
The simple type of plant body in which a single cell performance functions of life is referred to as-	Unicellular	NEET-2017, Manipal-2011
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of-		
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of- An example of colonial alga is-	Unicellular Chlamydomonas	NEET-2017, Manipal-2011
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of- An example of colonial alga is- Sargassam algae exhibits-	Unicellular Chlamydomonas Volvox Gametic meiosis	NEET-2017, Manipal-2011 NEET-2017, Manipal-2010
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of- An example of colonial alga is- Sargassam algae exhibits- Cyanophycean algae are much important from point of view	Unicellular Chlamydomonas Volvox Gametic meiosis ew of- Soils fertility	NEET-2017, Manipal-2011 NEET-2017, Manipal-2010 Uttarakhand PMT-2011
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of- An example of colonial alga is- Sargassam algae exhibits- Cyanophycean algae are much important from point of view Cell wall of Chlamydomonas contains-	Unicellular Chlamydomonas Volvox Gametic meiosis ew of- Soils fertility Glycoproteins	NEET-2017, Manipal-2011 NEET-2017, Manipal-2010 Uttarakhand PMT-2011 Uttarakhand PMT-2011 J&K CET-2002
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of- An example of colonial alga is- Sargassam algae exhibits- Cyanophycean algae are much important from point of view	Unicellular Chlamydomonas Volvox Gametic meiosis ew of- Soils fertility	NEET-2017, Manipal-2011 NEET-2017, Manipal-2010 Uttarakhand PMT-2011 Uttarakhand PMT-2011
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of- An example of colonial alga is- Sargassam algae exhibits- Cyanophycean algae are much important from point of view Cell wall of Chlamydomonas contains-	Unicellular Chlamydomonas Volvox Gametic meiosis ew of- Soils fertility Glycoproteins	NEET-2017, Manipal-2011 NEET-2017, Manipal-2010 Uttarakhand PMT-2011 Uttarakhand PMT-2011 J&K CET-2002 JCECE-2005, Manipal-2000
The simple type of plant body in which a single cell performance functions of life is referred to as- Zygotic meiosis is characteristic of- An example of colonial alga is- Sargassam algae exhibits- Cyanophycean algae are much important from point of vie Cell wall of Chlamydomonas contains- The thallus of Volvox is called- Iodine is obtained from the members of-	Unicellular Chlamydomonas Volvox Gametic meiosis ew of- Soils fertility Glycoproteins Coenobium	NEET-2017, Manipal-2011 NEET-2017, Manipal-2010 Uttarakhand PMT-2011 Uttarakhand PMT-2011 J&K CET-2002 JCECE-2005, Manipal-2000 AIIMS-1994

BVP-2002	Sexual reproduction in Spirogyra is morphologically characterized by– Isogamy
Kerala PMT-2012	Cell wall contains cellulose pectin and polysulphate esters are a character of–
	Rhodophyceae
Kerala PMT-2012 AIPMT-1997	The green algae rich in proteins used as food supplements even by space travellers is-
Kerala PMT-2012	Green, Red and Brown the correct order of colours with respect to–
	Pigments, chlorophyll, phycoerythin and fucoxanthin
AP EAMCET-2014	Trichodesmium erythrium which gives colour to red sea is a- Blue green alga
BVP-2000	Incipient nucleus is present in– Myxophyceae
AIIMS-1995	Triphasic life cycle is found in- Polysiphonia
AIIMS-1995	Reticulate chloroplast is found– Oedogonium
AIPMT-2014	Spirogyra shows isogamy with– Non-flagellated gametes
Karnataka CET-2011	Spirogyra is an example of- Chlorophyllous thallophyte
AIPMT-2003	Sexual reproduction in Spirogyra is an advanced feature because it shows–
	Physiologically differentiated sex organs
AIPMT-1997, BVP - 2001	Ulothrix filaments produce– Isogametes
AIPMT-1997	Brown algae is characterised by the presence of – Fucoxanthin
UPCPMT-2011, JIPMER-1996	The pyrenoids are made up of– Proteinaceous centre and starchy sheath
AIPMT-1995, 1993	
AIPMT-1994, JIPMER-2004 Punjab MET-2003	In Chlorophyceae, the mode of sexual reproduction is-
	Isogamy, anisogamy and oogamy
AIPMT-1993	Chloroplast of Chlamydomonas is- Cup-shaped
AIPMT-1993	In Ulothrix/Spirogyra, reduction division (meiosis) occurs at the time of-
AIPMT-1991	Zygospore germination
AIPMT-1991	The common mode of sexual reproduction in Chlamydomonas is- Isogamous
AIF WI 1-1991	The product of conjugation in Spirogyra or fertilization of Chlamydomonas is-
AP EAMCET-2008	Zygospore Zygospore Zygospore formed in Spirogyra is different based on its- Nucleus
AIIMS-2002	Algae are useful because they– Purify the atmosphere
AIIMS 2002	In blue-green algae, photosystem-II contains important pigment concerned with
111110-2013	photolysis of water. It is a- Phycocyanin
J&K CET-2000	Water blooms are formed by- Planaktonic algae
J&K CET-2000	In chlamydomonas the life cycle– Haplontic
JCECE-2002	Spirogyra algae shows– Physiological anisogamy
Uttarakhand PMT-2010	There exists a close association between the alga and the fungus within a lichen.
	The fungus- provides protection, anchorage and absorption for the alga
Uttarakhand PMT-2010	In Spirogyra, a brief period of tetranucleate condition is found in-
	Germinating zygote
AMU-2009, Punjab MET-2008	Phycology is the study of- Algae
Punjab MET-2007	A ring of multicilliate zoogonidium is found in- Oedogonium
Karnataka CET-2005	Blue green algae groups of algae have- Prokaryotic organization
AIPMT (Screening)-2010	Algae have cell wall made up of- Cellulose, hemicellulose and pectins
AIPMT (Screening)-2010	PGA as the first CO ₂ fixation product was discovered in photosynthesis of-Algae
JIPMER-2004	In Spirogyra sometimes a ladder like structure is present due to-
Punjab PMT - 2003 Punjab MET-2003	Scalariform conjugation
JIPMER-2004	Mannitol is reserve food in– Phaeophyceae
PUNJAB - MET - 2003	
AIPMT - 2009 AIPMT (Screening)-2012	Multiplication by from antotion is common to multipallular funci file and
Air wit (Screening)-2012	Multiplication by fragmentation is common to multicellular fungi, filamentous algae and– Protonema of mosses
NEET (Karnataka)-2013	5
AIPMT-2007	
2007	
	The lower most cell of filamentous algae Ulothrix is characterised by–
NEET (Karnataka)-201 AIPMT-200	Specialized cells for fixing atmospheric nitrogen in Nostoc are- If you are asked to classify the various algae into distinct groups- Types of pigments present in the cell

Presence of nucleus and non-chlorophylls	
Smallest plant which contain green pigment such as higher green plant is-	UPCPMT-2002
Chlorophyceae	VMMC -2007
Experiment to demonstrate importance of nucleus in the controlling growth and heredity were performed on-	BVP-2006
Reserve food material of algae is- Starch	BCECE-2005
Phycocolloids are obtained from- Brown algae	UP CPMT-2010
Pigments common to all algae are- Chlorophyll-a and carotenoids	BVP-2012 MGIMS Wardha-2007 BCECE-2009
Hormogonia are vegetative reproductive structures of- Oscillatoria	Manipal-2012
In algae, the bacteriological filter is- Cosmarium	AFMC -2011
Presence of basal rhizoidal cell in Ulothrix is an example of-	BHU PMT (Mains)-2009
Beginning of division of labour	
The plants of Cladophora crispata occur as– Epizoic	BHU PMT (Mains)-2005
Chloroplasts of Spirogyra have- Smooth or waxy at the margins	HP CET-2011 BCECE-2006
Chlorophyceae classes is not a representative of– Green - algae	MGIMS Wardha-2013
Major pigments found in Phaeophyceae, i.e. brown algae are-	HP CET - 2013 J&K CET-2014
Chlorophyll a, c and fucoxanthin	CMC Ludhiana - 2007
Carrageen is obtained from- Red Algae	VMMC-2007
Mannitol is a stored food material found in members– Phaeophyceae	J&K CET-2012
Solar energy transducer is- Chlorella	AMU-2011
Algae which are called gulf weed are- Sargassum	AMU-2011
The commercially exploited algae include-Gelidium, Laminaria and Porphyra	AMU-1999
The red colour of rhodophyta is due to the preponderance of- Phycoerythrin	AMU-1999, 2012
A protein rich green alga is- Chlorella	MGIMS Wardha-2004 UP CPMT-2004
Cell wall of red algae contains- Cellulose + pectin + polysulphate esters	HP CET-2013
Cell wall of green algae is made up of- Cellulose	Rajasthan PMT-1998
Laminaria (kelp) and Fucus (rock weed) are the example of– Brown algae	UP CPMT-2001
Chlorophyll - b differs from chlorophyll - a in that it does not have-	BVP-2013 CG PMT-2007
Cladophora occurs in fresh as well as– Marine water	Uttarakhand-2005
Source of kelp is- Brown algae	Haryana PMT-2007
A term helotism is used for the symbiosis of– Algae and fungi	AMU-2006
Heterotrichous habit is shown by– Stigeoclonium	JIPMER-2000
The diploid phase in the life cycle of Spirogyra is represented by– Zygospore	AP EAMCET-2001
Characteristics of Cyanophyceae is– Phycocyanin	CG PMT-2006
Synzoospore is found in- Vaucheria	BHU PMT (Screening)-2011
External fertilization occurs in majority of– Algae	DUMET-2009
Genera belong to the same class of algae–	BVP-2013
Volvox, Spirogyra, Chlamydomonas	DUMET-2009
Conjugation occurs in– Spirogyra	DUMET-2001
In Spirogyra a brief period of tetranucleate condition is found in-	AP EAMCET-2002
Germinating zygote A water fern which is used as a green manure in rice fields is- Azolla	Haryana PMT-2010
Spirulina is used as a source of-	CMC Ludhiana-2014
The narrow middle part of chromatophore in Euglena is– Pyrenophore	AP EAMCET-2000
	Rajasthan PMT-2006
The red colour of red sea is due to- Trichodesmium blue-green algae	JCECE-2015
Sexual reproduction in Spirogyra is an advanced feature because it shows– Physiologically differentiated sex organs	JUEUE-2015

Ulothrix releases zoospore during-	Chlamydomonas Morning	BCECE-2008, UP CPMT-2006
Calcium encrustation and larvicidal properties are present in-	Chara	AMU-2003
Filaments, in which lateral conjugation occur are homothallic i	n- Spirogyra	AMU-2003
Bryophyt	es	
The amphibians of plant kingdom are–	Bryophytes	TS EAMCET-10.08.2021 Shift-I HP CET-2013, BCECE-2009 JIPMER-2004 VMMC-2003, 2002 DUMET-2001 Haryana PMT - 2000 AIPMT - 1996
In Funaria capsule, dispersal of spores takes place through-	Peristomial teeth	CMC Ludhiana-2011 AP EAMCET-2011 VMMC-2011 BHU PMT (Screening)-2009 Uttarakhand PMT-2009 MP CPMT-2009, AMU-2005 Manipal-2004, UP CPMT-1995
Protonema occurs in the life cycle of-	(Moss) Funaria	JIPMER-2012, BVP-2012 Manipal-2012, VMMC-2011 Uttarakhand PMT-2009 BHU PMT (Screening)-2009 CG PMT-2006 AIPMT-1993, 1990
Sphagnum is known as-	Bog moss	AIPMT-2014, Manipal - 2012 AFMC - 2010, UP CPMT-2010 CG PMT-2009 Haryana PMT-2009
In Funaria, stomata are present on the-	Capsule	CG PMT-2010, BCECE-2010 CMC Vellore-2009 Punjab MET-2009 Rajasthan PMT-2009 MGIMS Wardha-2008 Haryana PMT-2007 UP CPMT-2001
In bryophytes- Sporophytes are dependent up	pon gametophytes	Punjab MET-2003 AFMC - 2000, AIPMT-1994 Rajasthan PMT-1998
Bryophytes can be separated from algae, because they– P	ossess archegonia	VMMC-2002 Haryana PMT-2000,2001 AIPMT-1997, 1999 AIPMT-1997
Calyptra develops from- Venter wa	ll of archegonium	JIPMER-2012, 2009 BHU PMT (Screening)-2009 Uttarakhand PMT-2009 Rajasthan PMT - 1998
Funaria gametophyte is- Monoecio	us and autoecious	MGIMS Wardha-2010 MP PMT-2004, 2001 AHMS-2001, AMU-1990
In bryophytes, the posterior part of archegonium grows to prote is-	ect the embryo. It Calyptras	BHU PMT (Mains)-2009 Haryana PMT-2008 Rajasthan PMT-2006 BHU PMT-2002 Rajasthan PMT-1998
Selaginella belongs to class-	Lycopsida	TS EAMCET-10.05.2023, Shift-II
Capsule producing spores and Pseudo-elaters are found in– Intercalary meristamatic zone, paraphyses, Elaeters are the cha Bryophytes respectively– Anthocerotopsida, Bryopsid		TS EAMCET 10.05.2023 Shift-1 AP EAPCET-23.05.2023, Shift-1
The Juvenile stage in Mosses is called as–	Protonema	AP EAMCET-12.07.2022 Shift-II
	oating bryophytes	Tripura JEE-2021
\mathbf{K} in the second s	vaume or voonvico	11Pulu 01515-2021
Riccia fluitans is an example of- Aquatic flo Gemmae are present in-	Some Liverworts	NEET-2021

Karnataka CET-2019	Plants like Marchantia and Funaria produce gametes by mitosis, because– Plant body is haploid
AIPMT-2004	Walking fern propagates through- Leaf tip
Rajasthan PMT-1996	Female reproductive organ of Riccia is known as- Archegonium
UP CPMT-2010	The sporophyte of Funaria begins development within– Archegonium
UP CPMT-2011	Vegetative reproduction in Funaria takes place by–
01 01 01 2012	Fragmentation and budding in the secondary protonema
AIPMT-1999	Funaria's male gametes are- Biflagellate
AIPMT-1990	Apophysis in the capsule of Funaria is– Lower part
AIPMT-2006	In a moss the sporophyte is- Partially parasitic on the gametophyte
AIPMT-1991	Moss has the largest- Gametophyte
Manipal - 2013	The plant group that produces spores and embryo but lacks vascular tissues and
AIPMT-1992	seeds is- Bryophyta
AIPMT-1997	Multicellular branched rhizoids and leafy gametophytes are the characteristics
	of- Some bryophytes
AIIMS - 2002, AIPMT-1996	Elater mechanism for spore dispersal is exhibited by– Marchantia
JIPMER-2008	Buxbaumia aphylla is a- Saprophytic bryophyte
AIIMS-2008	Chlorenchyma is known to develop in the- Spore capsule of a moss
Karnataka CET-2005	Vascular tissues is not a characteristic feature of- Algae and Bryophytes
AP EAMCET-1998	Meiosis in Funaria occurs in- Spore mother cells
NEET-2016 Phase-l	In bryophytes and pteridophytes, transport of male gametes requires– Water
AIPMT (Screening)-2010	Male and female gametophytes are independent and free-living in- Sphagnum
NEET (Karnataka)-2013	The plant body is thalloid in- Marchantia
AIPMT (Screening)-2011	Compared with the gametophytes of the bryophytes, the gametophytes of vascular plants tend to be– Smaller and to have smaller sex organs
Karnataka CET-2014	Marchantia is considered as a heterothallic plant because it is- Dioecious
Karnataka CET-2009 Manipal - 2009	Bryophytes resemble algae aspects– Thallus like plant body, lack of vascular tissues and autotrophic nutrition
Rajasthan PMT-2010	Spore dissemination in some liverworts is aided by– Elaters
AIPMT-2007 HP CET - 2012	Mosses are attached to substratum by– Rhizoids
UP CPMT-2005 UP CPMT-2014	Spore (n) is pioneer in gametophyte generation of– Bryophytes
VMMC-2006, UPCPMT-2002	
Rajasthan PMT-1998	Mosses occurs in moist places because-Their gametes fuse in waterIn ferns and mosses, movement of antherozoids towards female component is
Haryana PMT-2006	called– Chemotactic movement
CMC Ludhiana-2007	At the base of seta of capsule of moss, there is a haploid brownish growth called–
Manipal-2006	Veginula
Manipal-2006	In capsule of moss, shock absorbers are- Trabeculae
Manipal-2006	Calyptra and spore in moss capsule is– Haploid/gametophytic tissue
Rajasthan PMT-2004	Difference between algae and bryophyte is- Sterile jacket
BHU PMT-2002	The positive evidence of aquatic ancestory of bryophytes is- Ciliated sperms
AFMC-2002	In Funaria, calyptra is derived from– Archegonium
Rajasthan PMT 2009 MGIMS Wardha-2004	Formation of sperms from small clumps of cells is not a case of– Epimorphosis
VMMC-2006	In Sphagnum, the gametophyte structure compensating for the absence of seta is known as– Pseudopodium
VMMC-2006	The protective device over the developing sporophyte is shoot calyptra in- Frullania
Uttarakhand-2005	Bryophytes lack true– Roots, leaves and stem
Uttarakhand-2005	Sex organs in Funaria develop- At tip of gametophore
MGIMS Wardha-2009	Largest moss is- Dawsonia
Haryana PMT-2009 CG PMT-2009	Largest moss is- Dawsonia
JIPMER-2001	Thallus of Riccia is- Haploid
	Mosses are indicator of– Air pollution

The nexuliar feature of Manchantic reducts is	VMMC-2005
The peculiar feature of Marchantia palmata is– Presence of androgynous receptacles	AMU-2005
Embryo is found in– Funaria	CG PMT-2006
Diatoms do not decay easily because– They have siliceous walls	BHU PMT (Screening)-2011
The brown hairs present at the base of the petiole of Pteris are called – Ramenta	AP EAMCET-2002
SR Kashyap is regarded as father of– Indian Bryology	BVP-2013
The sporogenous tissue is originated from amphithecium in– Anthoceros	Rajasthan PMT-2000
Spore of Funaria on germination gives rise to- Protonema	BCECE-2008
Tissue differentiation is well developed in– Bryophyrtes	UP CPMT-2013
Unicellular smooth and tuberculated type of rhizoids are present in– Riccia	Rajasthan PMT-2006
Pteridophytes	
Aquatic fern is used to increase the yield in paddy crop– Azolla	Tripura JEE-2022
Aquatic term is used to increase the yield in paddy crop- Azona	AMU-2007, BCECE-2003 AIPMT-2001, AIPMT-2000
If a sporangium is derived from a single cell, it is called– Leptosporangiate	AMU-2001, An M1-2000 AMU-2005, Manipal-2004
In a sportungium is derived from a single con, it is carred Expression anguate	Uttarakhand PMT-2004 AMU -2000
Walking fern propagates through– Leaf-tip	CMC Ludhiana-2009
	JCECE-2009, Manipal-2007 AIPMT-1998
In Selaginella, the adaxial outgrowth, from the base of leaf, is called– Ligule	BHU PMT (Mains)-2009
	AMU-2005, Manipal-2004 Uttarakhand PMT-2004
Genera like Selaginella and salvinia produce two kinds of spores. Such plants are	NEET-2021
known as-	BHU PMT (Screening)-2010
-	AIPMT-2008, BHU PMT-2002
Plant that possess characters like ramenta, archaegonia, circinate- Dryopteris	AP EAPCET-22.05.2023, Shift-I
Silent features like Embriophytic, Tracheophytic, Cryptogams refers to- Pteridophytes	AP EAMCET-03.09.2021 Shift-I UP CPMT-2012
From evolutionary point of view, retention of the female gametophyte with	NEET-2019
developing young embryo on the parent sporophyte for some time, is first observed in- Pteridophytes	
A well developed archegonium with neck consisting of 4-6 rows and neck canal cells, characterises– Bryophytes and pteridophytes	AIPMT-1995
Pteridophytes differ from mosses/bryophytes in possessing–	MP PMT-2013
Well developed vascular system	AIPMT-1993
Ectophloic siphonostele is found in– Osmunda and Equisetum	AIIMS-2008, AIPMT-2005
Prothallus of the fern produces- Gametes	JIPMER-2012 BHU PMT (Screening)-2009
In ferns, Meiosis takes place at the time of– Spore formation	AIPMT-2000
Selaginella and Salvinia are considered to represent a significant step toward evolution of seed habit because–	AIPMT (Mains)-2011
Embryo develops in female gametophyte which is retained on parent	
sporophyte	
In eusporangiate ferns, sporangium is produced from– A group of sporangial initial cells	AP EAMCET-2011
Pteridophytes are called vascular cryptogams, because they are non-seeded plants	Karnataka CET-2012
containing- Xylem and Phloem	
Dryopteris differs from Funaria in having– An independent sporophyte	J&K CET-2004
Coal is the fossil wood of- Cryptogamic plants	BVP-2011
The branch of biology that deals with the study of fossil is called– Palaeontology	J&K CET-2010
The trabeculae found in Selaginella are the modification of- Endodermal cells	VMMC-2011 BHU PMT (Screening)-2009 Uttarakhand PMT-2009
Antherozoids of Dryopteris are- multiciliated and coiled	Punjab MET-2009
Gametophytic and sporophytic phasess are independent in– Pteridophyte	JCECE-2008
In pteridophytes, phloem is without– Companion cells	JIPMER-2013, Manipal-2010
in prenaophywo, phioeni io miniout	, F •-•

Rajasthan PMT-2005	ferns. It refers to-	The circinate vernation is the characteristic feature		
UP CPMT-2004	Coiling of young leaves			
Punjab MET-1999	Ferns	Mesarch xylem is commonly found in-		
AFMC-2005	Annulus and stomium	Dispersal of spores in fern takes place through- Annulus and stomium		
BCECE-201		Antherozoids of pteridophyta are-		
	multiciliated, Pear-shaped			
BVP-2010	Sometimes, the fern plant arises from fern prothallus without fertilisation. This is an example of- Apogamy			
BHU PMT (Mains)-2005	The species of the following plant, are sometimes described as 're-surrection plants'– Selaginella			
BHU PMT (Mains)-2005	A venter is a part of– Archegonium			
UP CPMT-2012	Sporophytic			
J&K CET-2009	1 1	The bladder serving as floats and for trapping insec		
J&K CET-2014		Prothallus of Petridophytes is-		
	ng, photosynthetic thalloid gametophyte	linconspicuous, small, multicellular, free-l		
JIPMER-1997	The green upright sterile hair-like structures among the antheridia of are known as– Paraphyses			
JIPMER-2012	Independent sporophytes			
BHU PMT (Screening)-2009	r	independent sporophytes		
Uttarakhand PMT-2009				
JIPMER-2003	Lycopodium	Club moss is the common name of-		
Rajasthan PMT-2010	zoids and eggs mature at			
Rajasthan PMT-2010		Azolla is used as a biofertilizer because it-		
	ogen - fixing cyanobacteria			
AMU-2011	Homospory	Dryopteris and moss does show-		
AMU-1999		The present day higher green plants are believed to have evolved from- Ferns		
VMMC-2000		Telome theory of Zimmerman (1930) applies only to-Pteridophytes		
Rajasthan PMT-1998	Some ferns	Seed habit is developed first time in-		
Manipal-2000	Antheridia and archegonia	Fern gametophyte bears-		
CMC Ludhiana-2008 AMU-2007	Circinate ptyris	Leaf in young condition in fern is called-		
AP EAMCET-2004		Haploid brown, hairlike, delicate unicellular outgro		
	Rhizoids of fern plants			
Haryana PMT-2002	A tree fern is- Cyathea			
Manipal-2013	-	A mature ligule having a prominent basal portion i		
JIPMER-1995	-	Sporophyte of Dryopteris produces– Spores		
AP EAMCET-2001	Sex organs in Pteris are produced on- Ventral side of the prothallus			
AFMC-2004	Reduction (meiotic) division in Pteridophyta occurs- During spore formation			
CG PMT-2000	Dictyostele is found in- Fern			
CMC Vellore-200'	and whose main stem has	A tree growing in Indian Botanical Garden, Sibpur over 200 year, circumference 404m, prop roots 1,6		
CC BMT 441	Ficus benghalensis	decayed is-		
CG PMT-2011 Manipal 2010	Organ sui generis	Rhizophore of Selaginella is-		
Manipal-2010	Horse tail	Equisetum pteridophyte is called as-		
CMC Vellore-2009		Tracheophyta consists of- Pteridophytes, gymnosperms and angiosperms Loof gap in the vaccular culinder in forma in Paranabumatous gapa		
CMC Ludhiana-2011	Parenchymatous zone	Leaf gap in the vascular cylinder in ferns is–		
CMC Ludhiana-2008	Selaginella bryopteris	Botanical name of 'Sanjeevani' is-		
JCECE-2014	-	The rhyniophytes have- Sporangia at the tips of thin branches		
BVP-2000	Ferns	Seed habit was first originated in members of-		
BHU PMT (Screening)-2005	· · · · ·	Most primitive members in which roots are not pre		
JIPMER-2013	Seed producers	Fern and Funaria pairs of plants are not-		
VMMC-2006, 2003 AMU-2006	lowering plant which also Ligule	Heterospory and seed habit are exhibited by a non possess-		