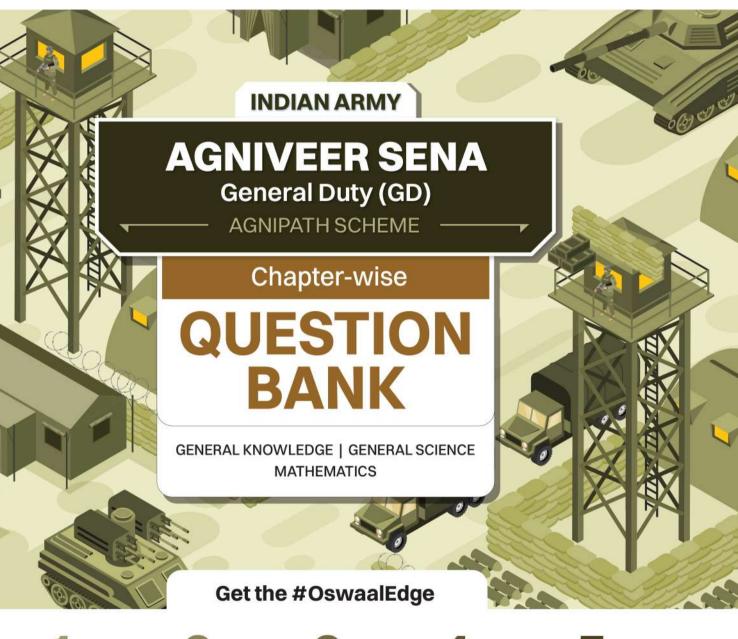
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Agniveer Sena (GD)



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PREFACE

In the realm of defense and security, where valor and unwavering commitment stand as the cornerstones of safeguarding a nation, the Agniveer Sena - General Duty (GD) examination holds a unique and revered position.

The Government had launched Agnipath scheme on June 15, 2022 to recruit both male and female aspirants into 'below the officer's rank' cadre of the three services for a period of four years as Agniveers. Candidates between the age group of 17.5 to 21 years are eligible to apply for the scheme.

In 2022, 2.5 Lacs students appeared for Agniveer Sena—General Duty (GD) exam, this presents an excellent chance for individuals with aspirations to serve the nation by joining the Armed Forces, the opportunity you get from the Indian Army is just limitless, which helps in enhancing your personality traits.

The Agniveer Sena (GD) - Chapter-Wise book has been meticulously curated to serve as an essential tool in your quest to succeed in the Apnipath Scheme and aims to make aspirants exam-ready, boost their confidence and help them achieve better results in the examination.

Some Benefits of studying from Oswaal Agniveer Sena (GD) - Chapter-wise Question bank is:

- 1. Concept Clarity with easy to grasp theory complemented with Solved Examples
- 2. **Extensive Practice** with more than 1200 new Questions based on latest exam pattern and Two Sample Question Papers.
- 3. **Crisp Revision** with Mind Maps offering bite-sized and just-in-time revision tool
- 4. Expert Tips helps you get expert knowledge, master & crack Agniveer Sena (GD) in first attempt.
- 5. **Exam insights** with Chapter-wise weightage Analysis, empowering students to be 100% exam ready.
- 6. **Quick & Easy Techniques** the book offers Shortcuts & easy to follow Tips and Tricks to help readers solve exam questions efficiently.

May your dreams take flight, and may your journey be as rewarding as it is challenging. Here's to those who dare to dream and to the Agniveer's, where the sky is not the limit but the beginning of a new adventure.

Onward, to the skies!



Be mindful. Be grateful. Be positive. Be true. Be kind

Three things that make you special

you are grateful for and why

03

A challenging experience that made you stronger

Three ways to inject gratitude into a current challenge

06 Describe the last time you did something nice for someone 07/ A fear you overcome

08 Three activities you enjoy most and why

0.9 What made you smile today?

10 Three things you love abou your family

What is your favorite place, and why?

12 Three things you love most about yourself

13 The last time you were overcome with joy

14 A risk you are grateful you took and why

15 items you are grateful for

16 Three songs that bring you joy

What skill do you have that you are grateful for and why?

18 One luxury you are thankful for

Describe a rejection you are grateful for

Three things about your body you are grateful for

What are you most grateful for in your daily life?

Three things you are grateful for about where

23 Three items in you are grateful for

24 Say thank you to someone

25 Something in nature you are grateful for

26 A person in your past you are grateful for

27/ Something at school you're grateful for

28 Describe the last time you laughed so hard you cried

29 What is your proudest accomplish-ment?

Three things you want to manifest



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POSITIVE AFFIRMATIONS

An affirmation is a positive statement or phrase that individuals repeat to themselves with the intention of fostering a positive mindset, self-confidence, or personal development. The practice involves affirming desired beliefs or qualities, often in the present tense, to reinforce a positive self-image and encourage a more optimistic outlook.

"EMBRACE YOUR UNIQUENESS, NOURISH SELF-CARE, AND PRESS FORWARD RELENTLESSLY. TO ACHIEVE FLIGHT, UNLOAD THE BAGGAGE THAT SLOWS YOUR ASCENT."



I strongly trust in my vision and work deligently towards making it a reality.



I am not defined by grades & test scores. My true worth lies in my character, compassion and positive impact I have on others.



I am capable of learning and growing everyday.



I celebrate my quirks, for they make me beautifully unique.



I embrace my mistakes, learn from them and use them to fuel my growth & resilience.



My voice matters and I believe in the power of my words to shape the world around me.



I celebrate the achievements of others without diminishning my journey.



Eu. 3

I face challenges with courage and determination.



I am not the product of circumstances, I am the product of my own choices.



I believe that the twists & turns of my life lead me to an extraordinary destinations.

Tips to Crack Agniveer Sena - General Duty (GD) in the First Attempt

The Indian Army conducts the Agniveer Sena (GD) exam for recruitment of below officer rank cadre, The Agnipath Scheme was inducted recently and is one of the National Level Examinations in India. Cracking the Agniveer Sena (GD) exam in the first attempt, given the difficulty level, is tricky but attainable if done diligently and smartly. Here are some tips that you must follow by heart to crack the exam in the very first attempt:

Think Right

Calming yourself and thinking positive is the first and the best course of action that one is required to take. Think and believe that the exam goal is achievable if worked upon smartly.

Start studying from the beginning

All the aspirants are aware of how vast, comprehensive and detailed the syllabus of the Agniveer Sena (GD) exam is. To crack the exam in the first attempt you have to start preparing for the exam from the beginning of your 10th class. It is only then that you will be able to complete the entire syllabus. Following this approach will also allow you plenty of time to revise.

Respect the syllabus and arrange the materials accordingly

While preparing for the Agniveer Sena (GD) exam nothing can be labelled as less important. Questions can come from the most unexpected topic too. Laying down your whole syllabus in front of you will help you to decide on teh study material you require.

Get the right tools and study material

Gathering and preparing from the appropriate study material is something you cannot be ignorant towards. You can refer to Oswaal Books Agniveer Sena (GD) Chapter-wise Question Bank to enhance your preparation. This reference book is on the lines of the current syllabus and can be entrusted upon before the examination.

Schedule total time for each subject

Creating a schedule which gives due time to all the subjects is a must. Giving proper time to all the subjects daily will help you cover the syllabus on time, giving you enough time for revision.

Understand the concepts

No one can crack the Agniveer Sena (GD) exam just by mugging up all the concepts and topics. The syllabus of the exam is in-depth such that you need to understand every concept.

Practice a lot of Sample Papers

Agniveer Sena (GD) Chapter-wise Question Bank will not only help you in under standing the examination pattern, but they will also help you in figuring out the questions that come up every year and this might give you an edge over other students. You can refer to Oswaal the Agniveer Sena (GD) book as it include all the Examination with solution, Mind Maps, etc. Referring to various sample papers might also help you in comprehending the areas which require more work.

Revise whenever you get time Make sure you revise as much as possible. The revision will help you in keeping the concepts fresh in your mind.

Analysing your performance

While you are solving papers, make sure you keep a track of time i.e. how much time does it take to solve one section or one question? Make a report of the sections and type of questions which take minimum and maximum time.

Agniveer Sena - General Duty (GD) Syllabus

GENERAL KNOWLEDGE

Abbreviations – National and International.

Sports – National and International.

Awards & Prizes – National awards, Gallantry awards, Nobel Prizes.

History - Important dates & battles in Indian and World History and land marks of Indian

History, national movement.

Geography – Solar System Space exploration, The earth principal peaks, Deserts, Rivers, Lakes

and famous waterfalls, Geographical Tallest, Biggest and Longest etc.

Terminology – Geographical terms, Economic terms, Astronomical terms, Legal terms and Misc

terms.

UNO

Indian Armed Forces.

Indian Towns, States and Uts.

Institutions and Research Stations, International space Stations and Festivals of India and World.

Indian News Agencies and Dailies.

Continents and Sub Continents.

Inventions and Discoveries.

Environment.

The Constitution of India.

Religious communities and Principal Languages.

National and International Days.

International Organizations.

Books and Authors.

The world of Plants and animals.

Current Affairs and "Who's Who".

Note:- The above syllabus is not a comprehensive list of topics pertaining to the subject. At times questions may be asked other than the above topics but definitely within the syllabus of CBSE.

GENERAL SCIENCE

Human Body – Food and nutrition, diseases and prevention, vitamins and their uses.

Question of General Science consisting of topic related to Physics, Chemistry and Biology. based on fundamentals and day to day activities.

Medical Terms.

Scientific Terms.

Scientific and Research Institutes in India.

Contd....

IO/Numeral Ability. The questions will be based on the ability of the candidates of age group ranging between 16 & 20 years.

MATHEMATICS

Arithmetic

Consisting of numbers, HCF, LCM, Decimal fraction, square roots, percentage, Average, Ratio and proportion, partnership, profit & loss, unitary method, time work and distance, simple interest.

Algebra

Basic operations and factorization, HCF and LCM, quadratic equations.

Geometry

Lines and angles, triangles quadrilaterals, parallelograms and circles

Mensuration

Area and perimeters of Squares, rectangles parallelograms and circles, volume and surface area of cube, cuboids, cone, cylinders and sphere.

Note : The above syllabus is not a comprehensive list of topics pertaining to the subject. At times questions may be asked other than the above topics but definitely within the syllabus of CBSE

Scheme - Agniveer Sena: General Duty (GD)

Ser No	Subject	Questions	Marks	Pass Marks	Remarks
(a)	General Knowledge	15	30		
(b)	General Science	20	40	32	NCC 'C' Cert holders are exempted
(c)	Maths	15	30		-

MARKING SCHEME FOR AGNIVEER SENA (GD) 2024

- (i) There will be negative marking in the exam. 1/4 of the marks assigned to the question will be deducted for every wrong answer.
- (ii) No marks will be deducted for unattempted questions.
- (iii) All attempted questions will be evaluated, even if marked for review.

ELIGIBILITY CRITERIA

Nationality	Should be an Indian Citizen		
Age Criteria	Minimum Age 17.5 years Maximum Age 21 years		
Age Relaxation	An age relaxation of 2 years is provided for the benefit of candidates.		
Upper Age Limit (One-time Measure)	The upper age limit is relaxed from 21 years to 23 years for Agneepath Recruitment Year 2024.		
	Education Criteria		
Post Name	Qualification		
Agniveer General Duty (GD)	Class 10th Matric with 45% Marks and a Minimum 33% in Each Subject		
Agniveer Technical (All Arms)	10+2 Intermediate Exam in Science Stream with Physics, Chemistry,		
Agniveer Technical Aviation &	Maths and English with Minimum 50% Marks in Aggregate and 40%		
Ammunition Examiner	in Each Subject.		
	OR 10+2/Intermediate exam pass in Science with Physics, Chemistry, Maths & English from any recognized State Education Board or Central Education Board to inclusive NIOS and ITI course of minimum one		
	year in the required field with NSQF level 4 or above. OR		
	10th/Matric pass with 50% in aggregate and min 40% in English, Maths and Science with 02 years of Tech. Training from ITI or two/three yrs. Diploma in following streams only: -		
	 (i) Mechanic Motor Veh (ii) Mechanic Diesel (iii) Electronic Mech (iv) Technician Power Electronic Systems (v) Electrician (vi) Fitter (vii) Instrument Mechanic (viii) Draughtsman (All types) (ix) Surveyor (x) Geo Informatics Assistant (xi) Information and Communication Technology System Maintenance (xii) Information Technology (xiii) Mechanic Cum Operator Electric Communication System (xiv) Vessel Navigator (xv) Mechanical Engineering (xvi) Electrical Engineering (xvii) Electronics Engineering (xviii) Auto Mobile Engineering (xix) Computer Science/Computer Engineering 		
Agniveer Clerk / Store Keeper (Technical) All Arms	(xx) Instrumentation Technology 10+2 Intermediate in Any Stream with Minimum 60% Marks Aggregate and Minimum 50% Marks in Each Subject		
Agniveer Tradesman 10th Pass	Class 10th High School Exam Passed in Any Recognized Board in India. Minimum 33% in Each Subject		
Agniveer Tradesman 8th Pass	Class 8th Eight Exam Passed in Any Recognized Board in India. Minimum 33% in Each Subject		

PAY and PERKS

Indian Army Agniveer in Hand Salary

The Indian Army Agniveer in Hand Salary will vary depending on their rank and allowances. However, the basic pay for all Agniveers is Rs. 30,000 per month. In addition to their basic pay, Agniveers are also entitled to a number of allowances.

Year	Monthly Package	In-Hand Salary	Contribution to Agniveers Corpus Fund (30%)	Contribution to Corpus fund by GoI
1st Year	INR 30,000	INR 21,000	INR 9,000	INR 9,000
2nd Year	INR 33,000	INR 23,100	INR 9,000	INR 9,000
3rd Year	INR 36,500	INR 25,550	INR 10,950	INR 10,950
4th Year	INR 40,000	INR 28,000	INR 12,000	INR 12,000

Indian Army Agniveer Annual Package

The candidates post getting featured in the Indian Army Agniveer result list will be entrusted to get a monthly customised package of INR 30 thousand for the first year. This package will grow at the rate of 10% on an annual basis. With that, the annual package for the first year is going to be INR 3.6 LPA and it will go upto INR 4.8 LPA in the fourth year.

Year	Customized Package (Monthly)	Annual Package
1st Year	30000	INR 3.6 LPA
2nd Year	33000	INR 3.96 LPA
3rd Year	36500	INR 4.38 LPA
4th Year	40000	INR 4.8 LPA

Indian Army Agniveer Salary Structure

As per the information handout, the tenure of the candidate selected in the Indian Army Agniveer job profile is going to be of four years. During this period, they shall be paid a customised monthly package that is going to be devoid of allowances. Go through the table below to know about the year-wise Indian Army Agniveer in-hand salary.

Year	Customised Package (Monthly)	In Hand Salary	Contribution to Agniveers Corpus Fund (30%)	Contribution to Corpus fund by GoI
1st Year	30000	21000	9000	9000
2nd Year	33000	23100	9000	9000
3rd Year	36500	25550	10950	10950
4th Year	40000	28000	12000	12000

Indian Army Agniveer Job Profile

Candidates who score more than the Indian Army Agniveer cut off marks shall be finally appointed as shall be asked to discharge the following duties after joining the force.

Post	Job Profile
Agniveer Clerk / Store Keeper Technical	They have to maintain an inventory of the items available in the Army Canteen.
Agniveer (General Duty)	They belong to the active army group and have to work together with the team to combat enemy.
Agniveer Tradesmen	They belong to the multi-tasking group and have to do the job as per the profile they have been posted.
Agniveer (Tech)	They are entrusted with the job of making sure that all the technical equipment is working fine.

Agniveer Sena (GD) : Chapterwise Weightage Analysis

General Knowledge

Section	Number of Questions Asked
Current Affairs	2-3
Appointment	2
Awards & Honours	1-2
History	2-3
Geography	2
Polity	2-3
Total	15

General Science

Section	Number of Questions Asked
Biology	5-6
Physics	3-4
Chemistry	4-5
Total	15

Mathematics

Section	Number of Questions Asked
Percentage	2
CI & SI	1
Profit & Loss	1-2
Time & Work	1-2
Algebra	5-6
Number System	1-2
Polygon	-
Total	20

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Mathematics, Physics, Chemistry

JEE (MAIN) Chapter-wise & Topic-wise Solved papers (2019-2023) Question Bank (For 2024 Exam)

Mathematics, Physics, Chemistry

JEE(Main) RMT Cards

Physics Part - I, Physics Part - II, Chemistry Part - I Chemistry Part - II, Mathematics Part - II, Mathematics Part - II

JEE Advanced (For 2024 Exam) 22 Year-wise Solved Papers (2002-2023)

Mathematics, Physics, Chemistry

JEE Advanced 10 Mock Test Papers Paper 1 & Paper 2 (For 2023 Exam)

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Physics, Chemistry, Mathematics & Biology

Vedic Maths

Vedic Maths (Ashima Sekhri)

CUET Sample Question Papers

English, Accountancy, Biology, Business Studies, Chemistry, Mathematics/Applied Mathematics, Entrepreneurship, Computer Science/Informatics Practices, Sociology, Economics, Geography, History, Physics, Political Science, Psychology, Physical Education, (Quantitative Aptitude, Logical Reasoning General Awareness).

CDS Chapter-Wise & Topic-Wise Solved Papers (2014-2023)

Elementary Mathematics, English, General Knowledge

NDA-NA Chapter-Wise & Topic-Wise Solved Papers (2014-2023)

Mathematics, General Ability Test: English, General Ability Test: General Studies

CUET Question Bank (For 2023 Exam)

Quantitative Aptitude, Logical Reasoning, General Awareness

National Talent Search Exam (NTSE)

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Quantitative Aptitude, Logical Reasoning, General Awareness, General English

NRA Question Bank 12th Pass

Quantitative Aptitude, Logical Reasoning, General Awareness, General English

NRA Question Bank Graduation Pass

Quantitative Aptitude, Logical Reasoning, General Awareness, General English

Objective General English

Objective General English

Objective Quantitative Aptitude

Objective Quantitative Aptitude

CAT

CAT 15 Mock Test Papers, CAT 25 Years' Chapterwise & Topicwise Solved Papers (1990-2008) (2017-2022), CAT 10 Years' Chapterwise & Topicwise Solved Papers Question Bank (2005-2008), (2017-2022), CAT 5 Years' Yearwise Solved Papers Shift wise (2018-2022)

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Mittal Books, (011) 23288887, 9899037390, Singhania Book & Stationer, 9212028238, AoneBooks, New Delhi, 8800497047, Radhey Book Depot, 9818314141, Batheja Super Store, 9871833924, Lov Dev & Sons, Delhi (E & C), 9811182352, Zombozone, 9871274082, LDS Marketing, 9811182352/9999353491 DEI HI

Patel Book, 9898184248, 9824386112, 9825900335, Zaveri Agency, 9979897312, 9979890330, Hardik Book Agency, (ISC) 079-24110043, 9904659821 Samir Book Stall, Bhavnagar (ISC) 9586305305 Collegian Book Corner, 9925501981 Goutam Book Sellers, 9081790813

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Mahavir Stationers, 9429474177 College Store, (ISC) NO CALL 02637-258642, 9825099121 NAVSARI

SURAT Shopping Point, 9824108663

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VADODARA

Manish Traders, 9812556687, Swami Kitab Ghar, 9355611088, Babu Ram Pradeep Kumar, 9813214692 Sanjay book depot, 9255447231 ROHTAK

Umakant Book Sellers & Stationer, 9624920709

RFWARI BALLABGARH Kashi Ram Kishan lal, 9289504004, 8920567245 Natraj Book Distributors, 7988917452 HISAR

BHUNA Khurana Book Store, 9896572520

JAMMU

Sahitya Sangam, 9419190177 JHARKHAND

Bokaro Student Friends, (0654) 2233094, 7360021503, Bharati Bhawan Agencies, 9431740797 BOKARO

Crown Book Distributor & Publishers, (0651) 2213735, 9431173904, RANCHI

Pustak Mandir, 9431115138, Vidyarthi Pustak Bhandar, 9431310228 DUMKA

HUBLI Renuka Book Distributor, (0836) 2244124, Vidyamandir Book Distributors, 9980773976 CHENNAI

BANGLORE Krishna book house, 9739847334, Hema Book Stores, 9986767000,

Sapna Book House Pvt. Ltd., 9980513242, Hema Book World, (Chamrajpet) (ISC) 080-40905110, 9945731121

RFITERI Chatinya book centre, 9886064731

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Academic Book House, (0484) 2376613, H & C Store, 9864196344, Surya Book House, 9847124217, 9847238314

коттауам Book Centre, (0481) 2566992

Academic Book House. (0471) 2333349, 9447063349, Ponni Book Stall, 9037591721 TRIVANDRUM

CALICUT Aman Book Stall, (0495) 2721282,

MADHYA PRADESH

CHHINDWARA Pustak Bhawan, (E & C), 8982150100 GWALIOR Agarwal Book Depot, 9425116210

INDORE Bhaiya Industries, 9893326853, Sushil Prakashan, (0731) 2503333, 2535892, 9425322330, Bhaiya Store, 9425318103, Arun Prakashan, 9424890785

Bhaiya Book Centre, 9424081874, Seva Suppliers, 9826451052

Vinay Pustak Sadan, 8962362667, Anand Books and Stationers, 9425323508 JABALPUR

SAGAR Princi Book Depot, Sagar, 9977277011 KATNI Shri Mahavir Agency, 9425363412 UJJAIN Shreenath Book Depot, 9827544045

BHOPAL Gupta Brother, 9644482444

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AURANGABAD Shree Sainath Agencies, 7350294089, Maya Book Centre, (ISC), 9372360150 MUMBAI Vidyarthi Sales Agencies, 9819776110, New Student Agencies, 7045065799, Shivam Books & Stationery, 8619805332

JALGAON Sharma Book Depot & Stat. (ISC), 9421393040

Yash Book House. 9637936999, Shri Ganesh Pustakalay, 9730172188 LATUR KOLHAPUR

Granth the Book World, 9922295522

Laxmi Pustakalay and Stationers, (0712) 2727354, Vijay Book Depot, 9860122094 NAGPUR

Renuka Book distributor, 9765406133, Novelty Book Depot, 9657690220, Karamveer Book Depot, 9923966466, Arun Book & Stationers, 9423110953 Abhang Pustakalaya, 9823470756/9175940756

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DHULE Navieevan Book Stall, 7020525561 YAVATMAL Shri Ganesh Pustkalaya, 9423131275 VASAI Prime Book Centre, Vasai, 9890293662

CUTTACK A. K. Mishra Agencies, 9437025991, 9437081319

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BARIPADA KEONIHAR Students corner, 7008435418

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Sita Ram book Depot, 9463039199, 7696141911
Amit Book, 9815807871, Gupta Brothers, 9888200206, Bhatia Book Centre, 9815277131
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AJMER Laxmi General Store, Ajmer, 0145- 2428942 9460652197

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Second Hand Book Stall, 9460004745

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COIMBATORE Majestic Book House, (0422) 2384333, CBSC Book Shop, 9585979752

Arraba Book Traders, (044) 25387868, 9841459105, M.R. Book Store (044) 25364596, Kalaimagal Store, (044) 5544072, 9940619404, Vijaya Stores, 9381037417, Bookmark It-Books & Stat Store, 7305151653, M.K. Store, 9840030099, Tiger Books Pvt. Ltd., 9710447000, New Mylai Stationers, 9841313062, Prince Book House, Chennai,

0444-2053926, 9952068491, S K Publishers & Distributors, 9789865544, Dharma Book Shop, 8667227171

Sri Lakshmi Book Seller, 7871555145

PUDUCHERRY SALEM Pattu book centre, 9894816280

TRICHY P.R. Sons Book Seller, 9443370597, Rasi Publication, 9894816280.

Maya Book Centre, 9443929274 THENI

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G.K book centre and collections, 9894517994

TELANGANA

HYDERABAD Sri Balaji Book Depot, (040) 27613300, 9866355473, Shah Book House, 9849564564 Vishal Book Distributors, 9246333166, Himalaya Book World, 7032578527

(15)

UDAIPUR

AGARTALA

VELLORE

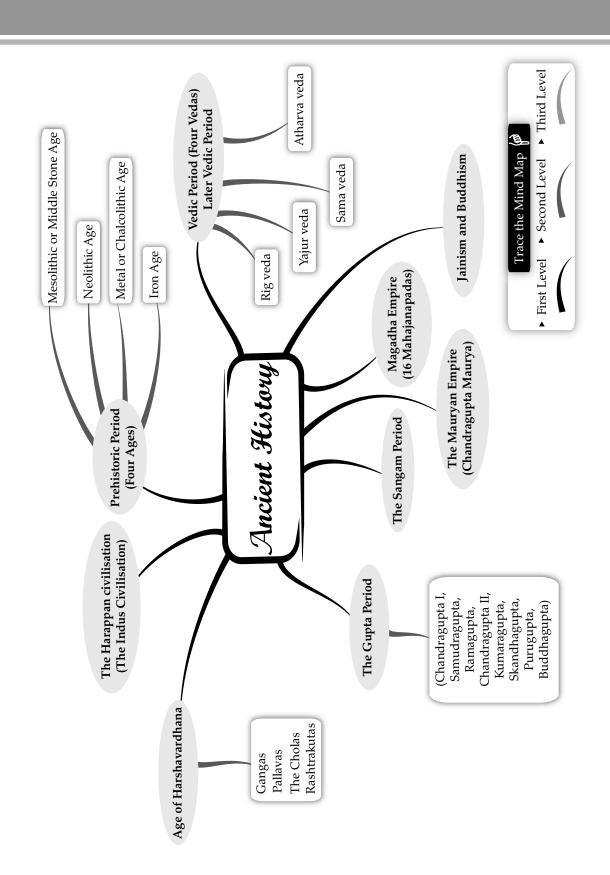
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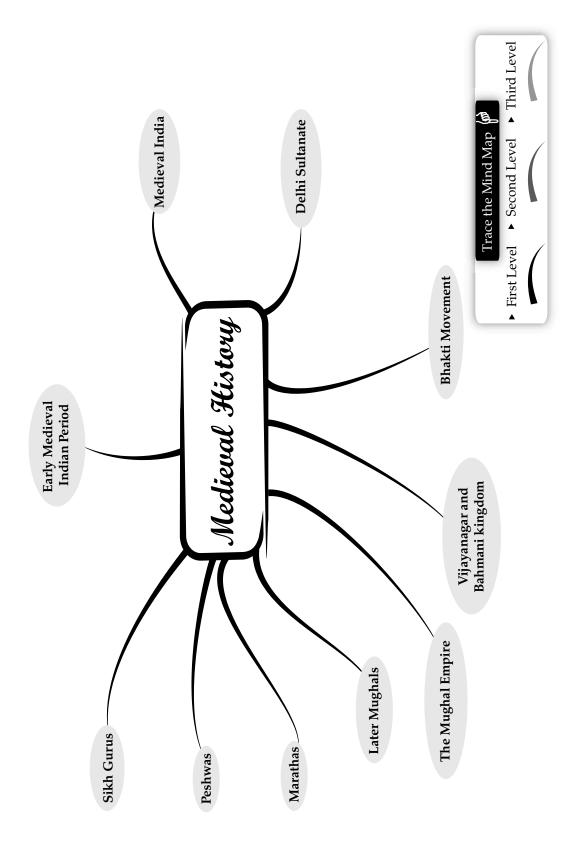
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DEHRADUN	Inder Book Agencies, 9634045280, Amar Book Depot , 8130491477, Goyal Book Store, 9897318047, New National Book House, 9897830283/9720590054	JHANSI	Bhanu Book Depot, 9415031340
MUSSORIE	Ram Saran Dass Chanda kiran, 0135-2632785, 9761344588	KANPUR	Radha News Agency, 8957247427, Raj Book Dist., 9235616506, H K Book Distributors, 9935146730, H K Book Distributors, 9506033137/9935146730
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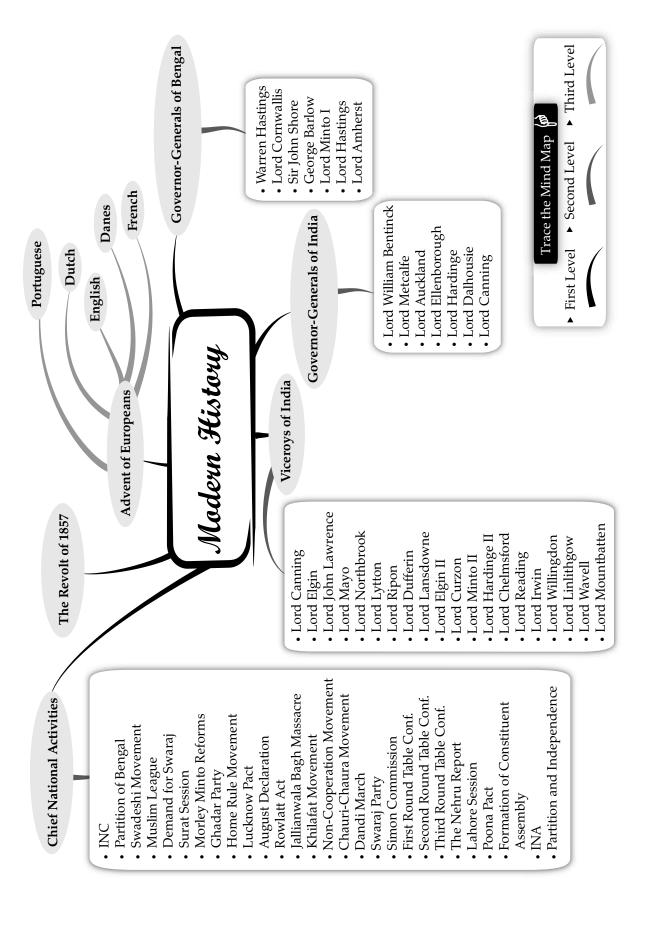
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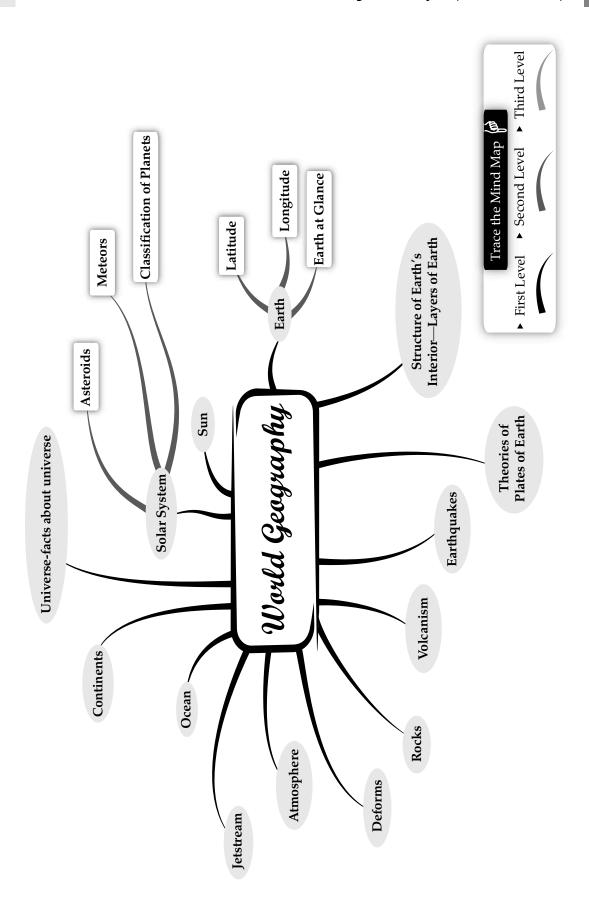
	BIHAR	CUTTAK	A.K.Mishra Agencies, 9437025991
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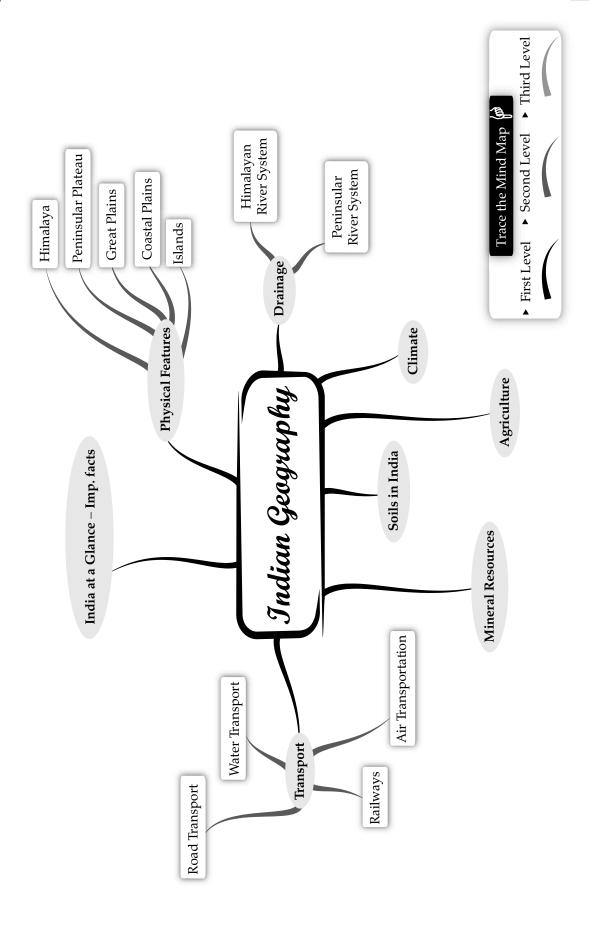


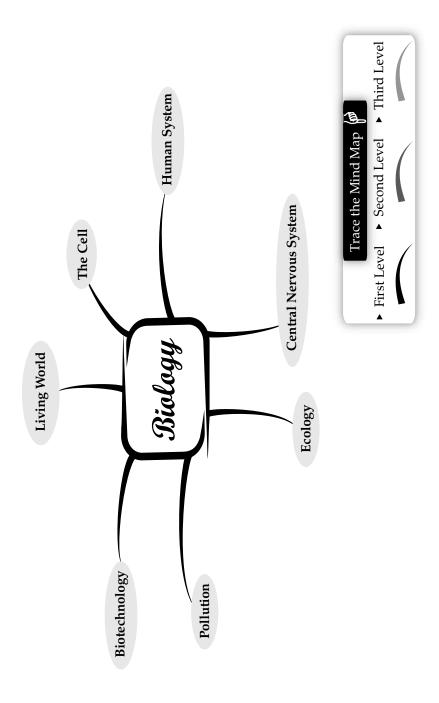


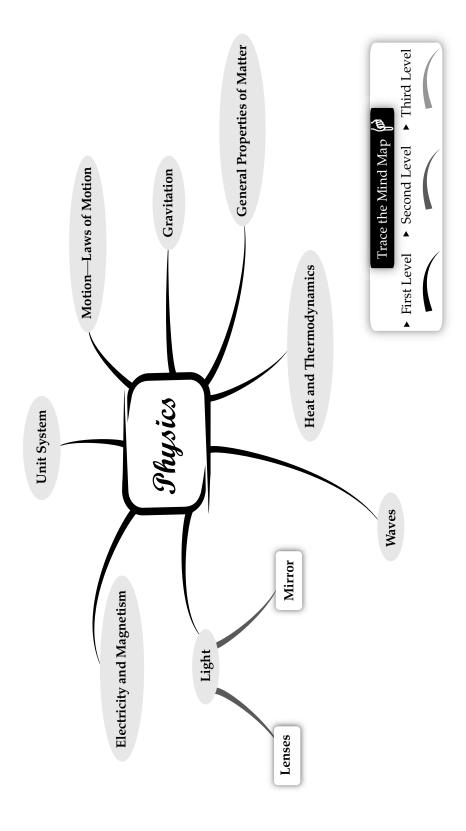


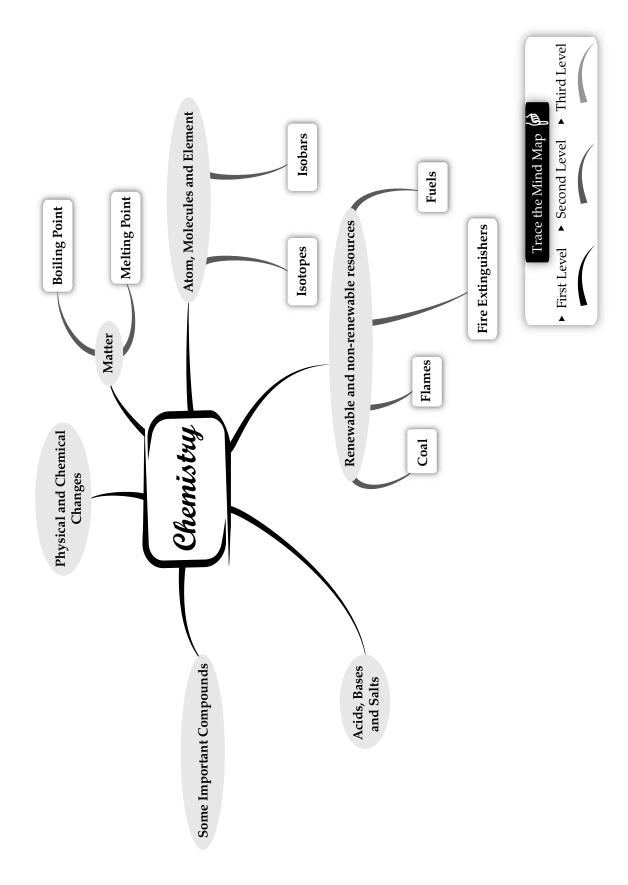


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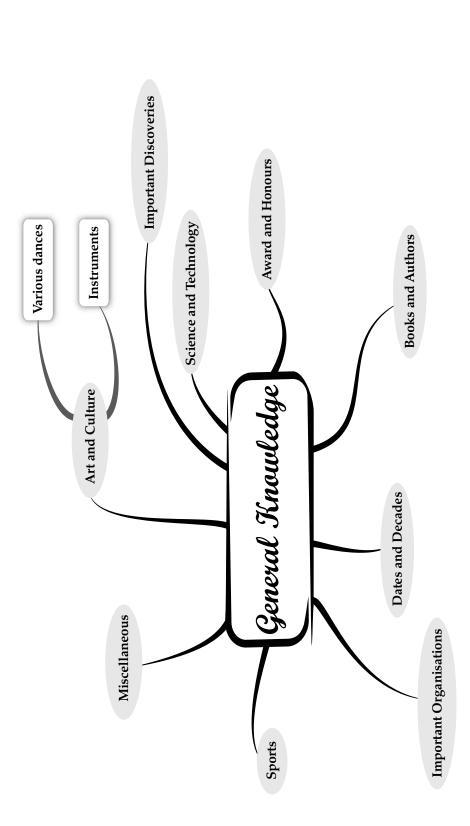






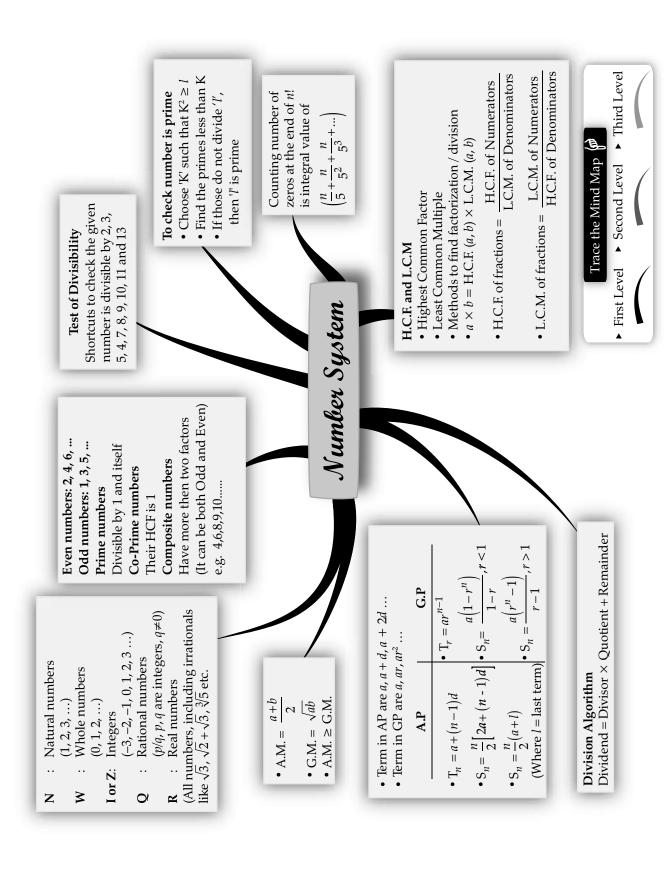


MINDMAPS



Trace the Mind Map (**)

First Level • Second Level • Third Level



V BODMAS Rule

V means Vinculum or bar. (The bar you see on the top of the values \bar{x}) B means Brackets - () {} []

O means of [i.e., Powers and square roots etc.]

D means Division [÷]

M means Multiplication [x]

A means Addition [+]

S means Subtraction [-]

-a, a < 0Modulus: $|a| = \begin{cases} a, a \ge 0 \end{cases}$

Square Root and Cube Root

l is square of k

k is cube root of *l l* is cube of *k*

Method of finding Methods of finding Prime factorization k is square root of l

 Prime factorization method

 Division method method

Rules of Indices

•
$$a^m \times a^n = a^{m+n}$$

•
$$\frac{a^m}{a^m} = a^{m-n}$$

Simplification

fractions, like fractions unlike

fractions, mixed fraction,

continuous fraction

Proper fractions, improper

Types of Fractions

and $b \neq 0$

Fractions $\frac{a}{b}$; a, $b \in I$ Rules of Surds

Some Root Value $\sqrt{2} = 1.414$ $\sqrt{3} = 1.732$

 $d = {}_{m} \left(\underline{d} / \underline{h}_{m} \right) \bullet$

• $\sqrt[n]{a} = a^{\overline{n}}$

 $\sqrt{5+\sqrt{11+\sqrt{19+\sqrt{29+\sqrt{49}}}}} = 3$

Trace the Mind Map

► Third Level ► First Level ► Second Level

Decimals

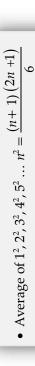
- Recurring decimals
- Non recurring decimals.
 - Decimal fractions

numbers is a_2 , then the average of total numbers n_1 and n_2 ,

 $n_1 a_1 + n_2 a_2$

Average =

If the average of n_1 number is a_1 and the average of n_2



• Average of 1³, 2³, 3³
$$n^3 = \frac{n(n+1)^2}{4}$$

Natural numbers i.e. 2, 4, 6, 2n = n+1The Average of first n consecutive even

natural numbers i.e. 1, 3, 5,(2n-1) = nThe Average of first n consecutive odd

- then the age after *n* years will be (x + n) years. • If the current age is x,
- If the current age is x,
- example, p:q, then the ages shall be considered then the age years before will be (x - n) years. If the age is given in the form of a ratio, for as px and qx, repectively.
- then *n* times the current age will be $(x \times n)$ If the current age is x, years.
- then $\frac{1}{n}$ of the age will be equal to $\left(\frac{x}{n}\right)$ years. If the current age to be x,

k number of observations with $n_{1'}$ $n_{\alpha'}$... n_k numbers having Then, Combined average A_1, A_2, \dots, A_k averages respectively.

 $= \frac{n_1 A_1 + n_\alpha A_\alpha + \dots + n_k A_k}{n_\alpha + \dots + n_k A_k}$ $n_1 + n_\alpha + \dots + n_k$

Questions Based on Ages of a Puzzle type Person Problems on Ages Average and

Problems an

Solving using known Mathematical tools

(Arithmetic Mean) Average

A = Total number of Observations Sum of Observations

Average of first *n* terms = $\frac{n+1}{n+1}$

Trace the Mind Map

▼ Third Level ► Second Level ▶ First Level Value after n years = $P\left(1 - \frac{R}{100}\right)^n$

 $= P \left(1 + \frac{R}{100} \right)^n$

 $\frac{3}{4} \times 100 = 75\%$ Fraction to %

> denoted by % 'Per' hundred

Depreciation

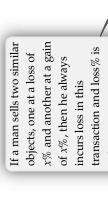
then, Increment $x_1 \% = \frac{x_1 - x}{x} \times 100$

then Reduction $\% = \frac{x - x_0}{x - 100} \times 100$

• If x is reduced to x_0 ,

If x is increased to x_1 ,

after n years Population



$$\frac{x^2}{100}\%$$

- Cost Price (C.P)
- Marked Price (M.P) • Selling Price (S.P)
- Profit-Loss (P-L)

Profit/Loss

Percentage, Profit-Loss and Discount

= Marked Price - Selling Price Discount $\% = \frac{\text{discount}}{\text{Marked price}} \times 100$ Discount

If an article is sold at D% discount, then $S.P = MP\left(\frac{100 - D}{100}\right) \text{ or } MP = \frac{S.P \times 100}{100 - D}$

• A is R% less than B, then B is more

than A by

 $\left(\frac{\mathring{R}}{R+100}\times100\right)\%$

Discount

 $\left(\frac{R}{100-R} \times 100\right)\%$

• If a% and b% are two succeissive losses then (negative sign shown

×C.P

• S.P

 $\left[100 \pm \left(\frac{\text{gain}}{\text{loss}}\right)\right]$

• Gain/Loss% = $\left| \frac{x-y}{x-100} \right| \times 100$

 $= \frac{L}{C.P} \times 100\%$

• Loss %

 $= \frac{P}{C.P} \times 100\%$

Profit %

= S.P - C.P= C.P - S.P

• Profit

- If a% profit and b% loss occur, simultaneously then overall loss or loss and positive sign shows profit). Total loss $\% = [-a - b + \frac{ab}{100}]$ profit % is $[a - b - \frac{ab}{100}]$ %
- If a% loss and b% profit occur then, total $\frac{\log s}{\text{profit}}$ is $\left[-a+b-\frac{ab}{100}\right]\%$

(-ve sign for loss, +ve sign for profit)

 $\frac{100 - 100 - 100}{100 - 100} \times S.P$

C.P =

Oľ

-xC.P

100 100

• If an object is sold on r% loss,

Where x = S.P, y = C.P then, S.P = $\frac{[100 - \text{Loss}\%]}{}$



where x and y are two successive discounts. Single discount = $\left(x + y - \frac{xy}{100}\right)\%$

Trace the Mind Map

► First Level ► Second Level ► Third Level