

Youth Competition Times

RRB ALP (STAGE II) RRB TECHNICIAN

NTPC ISRO DRDO IOF COAL INDIA SAIL BHEL VIZAAG STEEL ONGC BARC DFCCIL DMRC BMRC LMRC MMRC JMRC MES TRADESMAN CRPF CONSTABLE TRADESMAN/OVERSEER HAL MAZAGON DOCK SHIP BUILDERS LTD. OTHER TECHNICIAN EXAM

MECHANIC DIESEL Based on NCVT & NSQF (Level - V) NIMI PATTERN

CHAPTERWISE CHAPTERWISE SOLED PAPERS OBJECTIVE OUESTION

ANSWER WITH DETAILED ANALYTICAL EXPLANATION AND BASED ON REVISED ANSWER-KEY

MECHANIC DIESEL Solved Papers (With Explanation)

<u>Useful for</u>: RRB Assistant Loco Pilot, Indian Ordnance Factory (IOF), Maintainer (DMRC, LMRC, NMRC, BMRC, JMRC), ISRO Technician, CRPF Constable Tradesman, CRPF Overseer, HAL Fitter, MES Fitter, VIZAAG Steel Fitter, SAIL, GAIL, BHEL, NTPC, ONGC, BARC, DFCCIL, MAZAGON DOCK Ltd. and Other Technician Exams.

> **Chief Editor** A.K. Mahajan

Complied & Written by Er. Brijesh Maurya

Computer Graphics by Balkrishna Tripathi & Charan Singh

Editorial Office 12, Church Lane Prayagraj-211002 Mob. : 9415650134 Email : yctap12@gmail.com website : www.yctbooks.com/www.yctfastbook.com © All rights reserved with Publisher

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ALP/Technician Online Exam Syllabus

Mechanic Diesel

Short listing of Candidates for the Second Stage CBT exam shall be based on the normalized marks obtained by them in the First Stage CBT Exam.

Total number of candidates to be shortlisted for second stage shall be 15 times the community wise total vacancy of ALP and Technician Posts notified against the RRB as per their merit in First Stage CBT. However, Railways reserve the right to increase/decrease this limit in total or for any specific trade (s) as required to ensure availability of acequate candidates for all the notified posts.

Total Duration : 2 hours and 30 minutes (for Part A and Part B together)

The Second Stage CBT shall have two parts viz Part A and Part B as detailed below.

PART A

No. of Questions: 100

Minimum percentage of marks for eligibuility in various categories: UR-40%, OBC-30%, SC-30%, ST-25%. These percentages of marks for eligibility may be relaxed by 2% for PWD candidates in case of shortage of PWD candidates against vacancies reserved for them.

The marks scored in Part A alone shall be used for short listing of candidates for further stages of recruitment process subject to the condition that the candidate is securing qualifying mark in Part B.

(A) Mathematics

Duration: 90 Min.

Number system, BODMAS, Decimals, Fractions, LCM, HCF, Ratio and Proportion, Percentages, Mensuration, Time and Work; Time and Distance, Simple and Compound Interest, Profit and Loss, Algebra, Geometry and Trigonometry, Elementary Statistics, Square Root, Age Calculations, Calendar & Clock, Pipes & Cistern etc.

(B) General Intelligence and Reasoning

Analogies, Alphabetical and Number Series, Coding and Decoding, Mathematical operations, Relationships, Syllogism, Jumbling, Venn Diagram, Data Interpretation and Sufficiency, Conclusions and Decision Making, Similarities and Differences, Analytical reasoning, Classification, Directions, Statement– Arguments and Assumptions etc.

(C) Basic Science and Engineering

The board topics that are covered under this shall be Engineering Drawing (Projections, Views, Drawing Instruments, Lines, Geometric figures, Symbolic Representation), Units, Measurements, Mass Weight and Density, Work Power and Energy, Speed and Velocity, Heat and Temperature, Basic Electricity, Levers and Simple Machines, Occupational Safety and Health, Environment Education, IT Literacy etc.

General awareness on current affairs in Science & Technology, Sports, Culture, Personalities, Economics, Politics and other subjects of importance.

PART B

Duration: 60 Min.

No. of Questions: 75

Syllabus For Semester System For The Trade of MECHANIC DIESEL Under Craftmen Training Scheme (CTS) By Government of India Ministry of Labour & Employment (DGE&T)

First Semester-

■ Admission & introduction to the trade: Introduction to the Course duration, course content, study of the syllabus. General rule pertaining to the Institute, facilities available– Hostel, Recreation, Medical and Library working hours and time table ■ Occupational Safety & Health– Importance of Safety and general Precautions to be observed in the shop. Basic first aid, safety signs - for Danger, Warning, caution & personal safety message. Safe handling of Fuel Spillage, Fire extinguishers used for different types of fire. Safe disposal of toxic dust, safe handling and Periodic testing of lifting equipment, Authorization of Moving & road testing vehicles.

Energy conservation-Definition, Energy Conservation Opportunities (ECOs)-Minor ECos and Medium ECOs, Major ECOs), Safety disposal of Used engine oil, Electrical safety tips. ■ Hand & Power Tools:- Marking scheme, Marking material-chalk, Prussian blue. Cleaning tools- Scraper, wire brush, Emery paper, Description, care and use of Surface plates, steel rule, measuring tape, try square. Calipers-inside and outside. Dividers, surface

gauges, criber, punches-prick punch, center punch, pin punch, hollow punch, number and letter punch. Chisel-flat, cross-cut. Hammer- ball pein, lump, mallet. Screw drivers-blade screwdriver, Phillips screw driver, Ratchet screwdriver. Allen key, bench vice & C-clamps, Spanners- ring spanner, open end spanner & the combination spanner, universal adjustable open end spanner. Sockets & accessories, Pliers - Combination pliers, multi grip, long nose, flat-nose, Nippers or pincer pliers, Side cutters, Tin snips, Circlip pliers, external circlips pliers. Air impact wrench, air ratchet, wrenches- Torque wrenches, pipe wrenches, car jet washers Pipe flaring & cutting tool, pullers-Gear and bearing

■ Systems of measurement, Description, care & use of - Micrometers- Outside and depth mirometer, Micrometer adjustments, Vernier calipers, Telescope gauges, Dial bore gauges, Dial indicators, straightedge, feeler gauge, thread pitch gauge, vacuum gauge, tire pressure gauge. ■ Fasteners- Study of different types of screws, nuts, studs & bolts, locking devices, Such as lock nuts, cotter, split pins, keys, circlips, lock rings, lock washers and locating where they are used. Washers & chemical compounds can be used to help secure these fasteners. Function of Gaskets, Selection of materials for gaskets and packing, oil seals. ■ Cutting tools :- Study of different type of cutting tools like Hacksaw, File- Definition, parts of a file, specification, Grade, shape, different type of cut and uses., OFF-hand grinding with sander, bench and pedestal grinders, safety precautions while grinding. ■ Limits, Fits & Tolerances:- Definition of limits, fits & tolerances with examples used in auto components

■ Drilling machine - Description and study of Bench type Drilling machine, Portable electrical Drilling machine, drill holding devices, Work Holding devices, Drill bits. ■ Taps and Dies : Hand Taps and wrenches, Calculation of Tap drill sizes for metric and inch taps. Different type of Die and Die stock. Screw extractors. Hand Reamers – Different Type of hand reamers, Drill size for reaming, Lapping, Lapping abrasives, type of Laps. ■ Sheet metal -State the various common metal Sheets used in Sheet Metal shop Sheet metal operations - Shearing, bending, Drawing, Squeezing Sheet metal joints - Hem & Seam Joints Fastening Methods - Riveting, soldering, Brazing. fluxes used on common joints. Sheet and wire-gauges. The blow lamp- its uses and pipe fittings. ■ Basic electricity, Electricity principles, Ground connections, Ohm's law, Voltage, Current, Resistance, Power, Energy. Voltmeter, ammeter, Ohmmeter Mulitmeter, Conductors & insulators, Wires, Shielding, Length vs. resistance, Resistor ratings Fuses & circuit breakers, Ballast resistor, Stripping wire insulation, cable colour codes and sizes, Resistors in Series circuits , Parallel circuits and Series-parallel circuits, Electrostatic effects, Capacitors and its applications, Capacitors in series and parallel. Description of Chemical effects, Batteries & cells, Lead acid batteries & Stay Maintenance Free (SMF) batteries, Magnetic effects, Heating effects, Thermo-electric energy, Thermisters, Thermo couples, Electrochemical energy, Photo-voltaic energy, Piezo-electric energy, Electromagnetic induction, Relays, Solenoids, Primary & Secondary windings, Transformers, stator and rotor coils.

■ Basic electronics : Description of Semi conductors, Solid state devices- Diodes, Transistors, Thyristors, Uni Junction Transistors (UJT), Metal Oxide Field Effect Transistors (MOSFETs), Logic gates-OR, AND & NOT and Logic gates using switches. ■ Introduction to welding and Heat Treatment Welding processes – Principles of Arc welding, brief description, classification and applications. Manual Metal Arc welding -principles, power sources, electrodes, welding parameters, edge preparation & fit up and welding techniques; Oxy – Acetylene welding - principles, equipment, welding parameters, edge preparation & fit up and welding techniques;.Heat Treatment Process– Introduction, Definition of heat treatment, Definition of Annealing, Normalizing, Hardening and tempering. Case hardening, Nitriding, Induction hardening and Flame Hardening process used in auto components with examples. ■ Non-destructive Testing Methods- Importance of Non-Destructive Testing In Automotive Industry, Definition of NDT, Liquid penetrant and Magnetic particle testing method – Portable Yoke method

Introduction to Hydraulics & Pneumatics: - Definition of Pascal law, pressure, Force, viscosity. Description, symbols and application in automobile of Gear pump-Internal & External, \blacksquare single acting, double acting & Double ended cylinder; Directional control valves-2/2, 3/2, 4/2, 4/3 way valve, Pressure relief valve, Non return valve, Flow control valve used in automobile. Pneumatic Symbols, Description and function of air Reciprocating Compressor. Function of Air service unit (FRL-Filter, Regulator & Lubricator). \blacksquare Auto Industry - History, leading manufacturers, development in automobile industry, trends, new product. Brief about Ministry of Road transport & Highways, The Automotive Research Association of India (ARAI), National Automotive Testing and R&D Infrastructure Project (NATRIP), & Automobile Association. Definition: - Classification of vehicles on the basis of load as per central motor vehicle rule, wheels, final drive, and fuel used, axles, position of engine and steering transmission, body and load. Brief description and uses of Vehicle hoists – Two post and four post hoist, Engine hoists, Jacks, Stands.

SECOND SEMESTER-

■ Introduction to Engine: Description of internal & external combustion engines, Classification of IC engines, Principle & working of 2&4-stroke diesel engine (Compression ignition Engine (C.I)), Principle of Spark Ignition Engine(SI), differentiate between 2-stroke and 4 stroke, C.I engine and S.I Engine, Direct injection and Indirect injection, Technical terms used in engine, Engine specification. Study of various gauges/instrument on a dash board of a vehicle- Speedometer, Tachometer, Odometer and Fuel gauge, and Indicators such as gearshift position, Seat belt warning light, Parking-brake-engagement warning light and an Engine-malfunction light. Different type of starting and stopping method of Diesel Engine Procedure for dismantling of diesel engine from a vehicle..

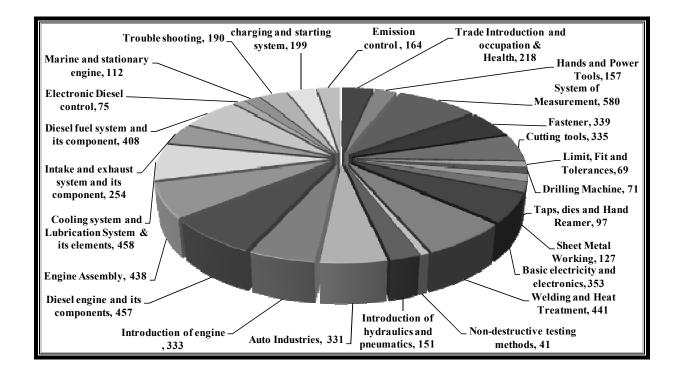
■ Introduction to Engine: Description of internal & external combustion engines, Classification of IC engines, Principle & working of 2&4-stroke diesel engine (Compression ignition Engine (C.I)), Principle of Spark Ignition Engine(SI), differentiate between 2-stroke and 4 stroke, C.I engine and S.I Engine, Direct injection and Indirect injection, Technical terms used in engine, Engine specification. Study of various gauges/instrument on a dash board of a vehicle- Speedometer, Tachometer, Odometer and Fuel gauge, and Indicators such as gearshift position, Seat belt warning light, Parking-brake-engagement warning light and an Engine-malfunction light. Different type of starting and stopping method of Diesel Engine Procedure for dismantling of diesel engine from a vehicle.. Description & functions of different types of **pistons**, piston rings and piston pins and materials. Used recommended clearances for the rings and its necessity precautions while fitting rings, common troubles and remedy. Compression ratio. Description & function of connecting rod, importance of big- end split obliquely, Materials used for connecting rods big end & main bearings. Shells piston pins and locking methods of piston pins. Description & function of connecting rod, importance of big- end split obliquely, Materials used for connecting rods big end & main bearings. Shells piston pins and locking methods of piston pins. Description and function of the fly wheel and vibration damper. Crank case & oil pump, gears timing mark, Chain sprockets, chain tensioner etc. Function of clutch & coupling units attached to flywheel. Description of Cylinder block, Cylinder block construction, and Different type of Cylinder sleeves (liner).
Engine assembly procedure with aid of special tools and gauges used for engine assembling. Introduction to Gas Turbine, Comparison of single and two stage turbine engine, Different between gas turbine and Diesel Engine. ■ Engine assembly procedure with aid of special tools and gauges used for engine assembling. Introduction to Gas Turbine, Comparison of single and two stage turbine engine, Different between gas turbine and Diesel Engine. Intake & exhaust systems – Description of Diesel induction & Exhaust systems. Description & function of air compressor, exhauster, Super charger, Intercoolers, turbo charger, variable turbo charger mechanism.Intake system components- Description and function of Air cleaners, Different type air cleaner, Description of Intake manifolds and material, ■ Exhaust system components- Description and function of Exhaust manifold, Exhaust pipe, Extractors, Mufflers- Reactive, absorptive, Combination., Catalytic converters, Flexible connections, Ceramic coatings, Back-pressure, Electronic mufflers. Diesel Fuel Systems- Description and function of Diesel fuel injection, fuel characteristics, concept of Quiet diesel technology & Clean diesel technology.Diesel fuel system components - Description and function of Diesel tanks & lines, Diesel fuel filters, water separator, Lift pump, Plunger pump, Priming pump, Inline injection pump, Distributor-type injection pump, Diesel injectors, Glow plugs, Cummins & Detroit Diesel injection. Electronic Diesel control- Electronic Diesel control systems, Common Rail Diesel Injection (CRDI) system, Hydraulically actuated electronically controlled unit injector (HEUI) diesel injection system. Sensors, actuators and ECU (Electronic Control Unit) used in Diesel Engines. Marine & Stationary Engine:- Types, double acting engines, opposed piston engines, starting systems, cooling systems, lubricating systems, supplying fuel oil, hydraulic coupling, reduction gear drive, electromagnetic coupling, electrical drive, generators and motors, supercharging.
Emission Control:- Vehicle emissions Standards- Euro and Bhart II, III, IV, V Sources of emission, Combustion, Combustion chamber design. Types of emissions: Characteristics and Effect of Hydrocarbons, Hydrocarbons in exhaust gases, Oxides of nitrogen, Particulates, Carbon monoxide, Carbon dioxide, Sulfur content in fuels Description of Evaporation emission control, Catalytic conversion, Closed loop, Crankcase emission control, Exhaust gas recirculation (EGR) valve, , Controlling air-fuel ratios, Charcoal storage devices, Diesel particulate filter (DPF). Selective Catalytic Reduction (SCR), EGR VS SCR Description of charging circuit operation of alternators, regulator unit, ignition warning lamp- troubles and remedy in charging system. Description of starter motor circuit, Constructional details of starter motor solenoid switches, common troubles and remedy in starter circuit.
Troubleshooting: Causes and remedy for Engine Not starting - Mechanical & Electrical causes, High fuel consumption, Engine overheating, Low Power Generation, Excessive oil consumption, Low/High Engine Oil Pressure, Engine Noise.

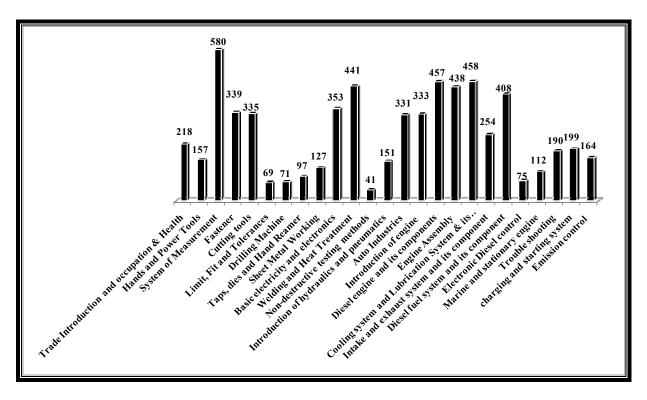
Mechanic Diesel Trade & Other Technician Exam Paper Analysis Chart

S.L.	Exam Name	Exam Date/Time	No. of Questions
	RR	BALP and Technician	
1.	RRB ALP Mechanic Diesel	08/02/2019 (Shift-I)	75
2.	RRB ALP Mechanic Diesel	23/01/2019 (Shift-I)	75
3.	RRB ALP Mechanic Diesel	23/01/2019 (Shift-II)	75
4.	RRB ALP Mechanic Diesel	23/01/2019 (Shift-III)	75
5.	RRB ALP Mechanic Diesel	21/01/2019 (Shift-I)	75
6.	RRB ALP Mechanic Diesel	21/01/2019 (Shift-II)	75
7.	RRB ALP Ajmer	10.10.2004	20
8.	RRB ALP Ajmer	23.05.2004	10
9.	RRB ALP Ajmer	05.06.2005	18
10	RRB ALP Allahabad	03.08.2008	15
11.	RRB ALP Allahabad	09.12.2007	16
12.	RRB ALP Bangalore	25.01.2004	14
13.	RRB ALP Bangalore	08.07.2007	15
14.	RRB ALP Bangalore	15.07.2012	20
15.	RRB ALP Bhopal	06.06.2010	12
16.	RRB ALP Bhubneswar	14.06.2009	16
17.	RRB ALP Bhubneswar	15.07.2012	10
18.	RRB ALP Bilaspur	15.07.2012	19
19.	RRB ALP Chandigarh	14.09.2008	17
20.	RRB ALP Chandigarh	15.07.2012	18
21.	RRB ALP Chandigarh	25.05.2003	14
22.	RRB ALP Chennai	06.06.2010	13
23.	RRB ALP Chennai	27.10.2002	13
24.	RRB ALP Gorakhpur	08.10.2006	11
25.	RRB ALP Gorakhpur	11.10.2009	20
26.	RRB ALP Gorakhpur	12.10.2003	20
27.	RRB ALP Gorakhpur	14.04.2002	15
28.	RRB ALP Gorakhpur	21.10.2001	12
29.	RRB ALP Guwahati	22.01.2006	16
30.	RRB ALP Jammu-Kashmir	06.06.2010	18
31.	RRB ALP Kolkata	02.11.2008	15
32.	RRB ALP Kolkata	06.02.2005	22
33.	RRB ALP Kolkata	16.07.2006	14
34.	RRB ALP Kolkata	2014	15
35.	RRB ALP Kolkata	29.09.2002	15
36.	RRB ALP Malda	16.07.2006	16
37.	RRB ALP Mumbai	03.06.2001	12
38.	RRB ALP Mumbai	05.06.2005	24
39.	RRB ALP Mumbai	14.06.2009	15
40.	RRB ALP Mumbai	15.07.2012	15
41.	RRB ALP Mumbai	16.07.2006	18
42.	RRB ALP Mumbai	05.01.2003	12
43.	RRB ALP Muzaffarpur	15.02.2009	23
44.	RRB ALP Patna	04.02.2007	18
45.	RRB ALP Patna	11.11.2001	22
46.	RRB ALP Patna	2014	18
47.	RRB ALP Ranchi	04.09.2005	16
48.	RRB ALP Ranchi	08.07.2007	15
49.	RRB ALP Ranchi	19.01.2003	17
50.	RRB ALP Ranchi	2014	10
51.	RRB ALP Ranchi	21.09.2003	15
52.	RRB ALP Secunderabad	06.06.2010	16
53.	RRB ALP Secunderabad	11.11.2001	19

54.	RRB ALP Secunderabad	29.06.2008	19
54. 55.	RRB ALP Secunderabad	29.08.2008	18
55. 56.	RRB ALP Singuri RRB ALP Trivandrum	2014 20.06.2004	12
50. 57.	RRB ALP Ahamadabad	20100.2004	19
57.	RRB ALP Ahamadabad	17.10.2004	10
50.	KKB ALF Allalliadabad	ISRO	14
59.	ISRO VSSC Technician B Mechanic Diesel	2021	80
<u>60.</u>	ISRO Technician B Mechanic Diesel	27/11/2016	80
61.	ISRO Technician-B Carpenter	27.11.2016	60
62.	ISRO Technician-B Fitter	20.11.2016	80
63.	ISRO Technician-B Grinder	27.11.2016	60
64.	ISRO Technician-B Motor Mechanic	27.11.2016	80
65.	ISRO Technician-B Plumber	27.11.2016	60
66.	ISRO Technician-B Turner	22.11.2016	60
		/LMRC/BMRC	
67.	DMRC (Maintainer) Fitter (Evening)	15.02.2017	75
68.	DMRC (Maintainer) Fitter (Morning)	15.02.2017	75
69.	DMRC (Maintainer) Fitter	20.07.2014	75
70.	DMRC (Maintainer) Fitter	24.12.2006	75
71.	BMRC Maintainer Fitter	2016	75
72.	LMRC (Maintainer) Fitter	16.03.2016	75
73.	Noida Metro Maintainer Fitter	2017	75
		DRDO	
74.	DRDO Fitter	2016	100
75.	DRDO Turner	2011	100
76.	DRDO Machinist	2016	100
77.	DRDO Motor Mechanic	2016	100
78.	DRDO Mechanic Diesel	2016	100
		rdinance Factory	
79.	Indian Ordnance Factory Fitter	10.09.2017	15
80.	Indian Ordnance Factory	2016	10
81.	Indian Ordnance Factory (Itarsi)	08.05.2016	12
82.	Indian Ordnance Factory	2015 2014	<u>13</u> 15
83. 84.	Indian Ordnance Factory	2014 2013	
84. 85.	Indian Ordnance Factory Indian Ordnance Factory	2013	<u>16</u> 15
85.		ther Exam	15
86.	HSSC Instructor Mechanic Diesel	25.12.2021	50
87.	NCVT NIMI Mechanic Diesel	2021	100
88.	Cochin Shipyard TA Mechanic Diesel	12.01.2020	100
89.	NSQF Mechanic Diesel	2020	100
90.	RSMSSB Jr. Instructor	23.12.2019	100
91.	NCVT Mechanic Diesel	01.11.2019	100
92.	NCVT NIMI Mechanic Diesel	2019	100
93.	HPSSC Mechanic Diesel (Instructor)	2018	120
94.	KPSC Jr. Instructor Mechanic Diesel	26.09.2018	80
95.	KPSC Instructor Mechanic Diesel	17.01.2017	80
96.	MP ITI TO Mechanic Diesel	08.11.2016	100
97.	SAIL Bokaro Steel Plant	2016	100
98.	SAIL Durgapur Steel Plant	05/09/2014	100
99.	VIZAAG Steel Fitter	2015	75
100.	NTPC Fitter	2014	80
101.	BHEL Hyderabad Fitter	2014	80
102.	COAL India Fitter	2013	100
103.	CRPF Constable Tradesman	2016	45
104.	HAL Fitter	2015	75
105.	Mazagon Dock Shipbuilders Ltd.	2013	100
106.	MES Automobile Tradesman	2015	100
		Total	4849

Trend Analysis of Mechanic Diesel Through Pie Chart and Bar Graph





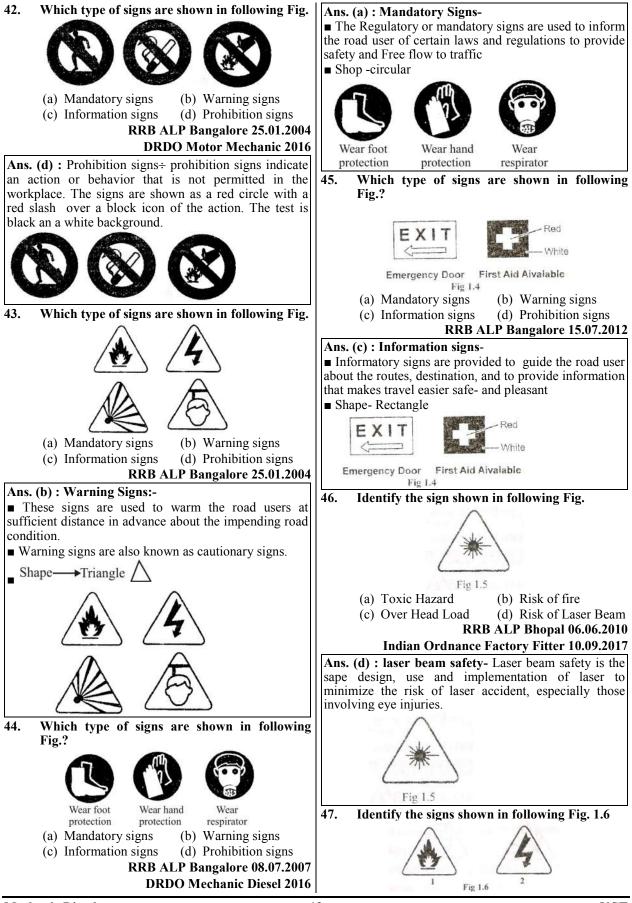
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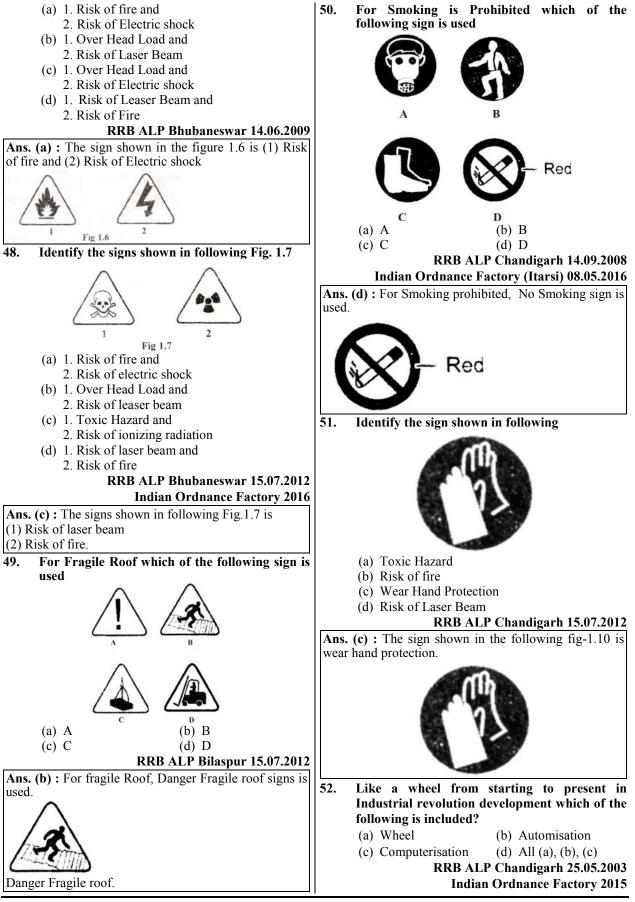
01. TRADE IN	TRODUCTION AND
OCCUPATION S	SAFETY & HEALTH
 Which of the following statement regarding additives is incorrect? (a) Oxidizing inhibitors are used to prevent the oxidation of lubricants (b) Detergent depressor is used to remove & to loose the deposits caused by dirt (c) Antioxidants are used to prevent forming of oil (d) Pour point depressors are used to lower the temperature at which oil becomes too thick too flow ISRO Technician-B Carpenter 27.11.2016 	 Oily surface of workshop is cleaned by wood shavings and sand. While working in the workshop, the following rules should often be adopted for safety (i) If grease or oil is lying on the floor of the workshop put sawdust or sand on it so that no on slips. (ii) Keep inflammable substances like petrol in a separate place and do not smoke in the workshop.
 Ans : (c) Adding, Antioxidants are used to prevent forming of oil it is incorrect. Oxidizing inhibitors are used to prevent the oxidation of lubricants. Detergent depressor is used to removes to loose the deposit caused by dirt. For additive, pour point depressors are used to lower the temperature at which oil becomes too thick to flow. 	 5. In a malfunction indicator lamp, green light indicates: (a) a serious problem or safety issue (b) the system needs service soon (c) the system is operating normally (d) the system needs to be repaired RRB ALP Mechanic Diesel 23/01/2019 Shift-I Ans. (c) : In a malfunction indicator lamp, symbol lights can appear in different colors.
 The preventive schedule of an engine which is checked after every 1500 hours of used is called: (a) Series A (b) Series C (c) Series D (d) Series B ISRO Technician-B Fitter 20.11.2016 Ans : (b) The preventive schedule of an engine which 	 Red-Indicates a potentially serious problem or safety issue. Yellow/Orange-Something needs to be serviced or repaired soon. Green/blue-Indicates that your system is operating normally. 6. Which colours are used on the signs for
is checked after every 1500 hours of used is called series C. 3. Metals, comes under which category of fire? (a) Category B (b) Category A (c) Category D (d) Category C	 firefighting equipment? (a) Black pictogram on a yellow background (b) White pictogram on a green background (c) White pictogram on a red background (d) White pictogram on a black background
RRB ALP Mechanic Diesel 21/01/2019 Shift-III Ans. (c) : Metals, comes under category D of fire. Fir class Description Fire extinguisher	RRB ALP Mechanic Diesel 23/01/2019 Shift-I ISRO Technician-B Motor Mechanic 27.11.2016 Ans. (c) : Any fire safety signs that are associated with firefighting equipment is red.
Class A• Carbonaceous fire (wood, paper, coal, jute etc.)• Water, sand, soda acid F.E.Class B• Liquid fire (petrol, • CO2 and Halon	 The writing and pictograms on these signs are white. 7. Flammable liquids comes under which class of fire?
Class D• ElquidInter (perior), diesel kerosene, oil etc.)• CO2 and Haton type F.E.Class C• Gas fire (L.P.G. GNG, • CO2 and	(a) Class A (b) Class B (c) Class C (d) Class D RRB ALP Mechanic Diesel 21/01/2019 Shift-I
propane butane etc)Holon type F.E.Class D• Electric fire or metallic fire.• C.T.C. F.E. and CO2 F.E.	Ans. (b) : Flammable liquid comes under the class of B of fire. Class-A – Carboneous fire Class-B – Flammable liquids
 4. Oily surface of workshop is cleaned by : (a) Wood shavings and sand (b) Washing by water (c) Sprinkling carbon dioxide (d) Cotton vest RRB ALP Mechanic Diesel 23/01/2019 Shift-II ISRO Technician-B Grinder 27.11.2016 	Class-C – Gaseous fire Class-D – Electrical fire/Metallic fire 8. Which fire extinguisher is suitable for a live electrical fire? (a) Halon (FE) (b) Water filled (FE) (c) Foam (FE) (d) Liquified chemical
	RRB ALP Mechanic Diesel 21/01/2019 Shift-I

	1		(c) Class C-Minor Energy Conservation
Ans. (a) : Live electrical fire is the category of class 'D' type fire.			(c) Class C-Minor Energy Conservation Opportunities
 Halon (FE) type extinguisher is a C.T.C. fire 			(d) All of these
extinguisher. It is suitable mostly for a live			RSMSSB Jr. Inst. Mechanic Diesel 23.12.2019
electrical fire or metallic fire.			ISRO Technician-B Turner 22.11.2016
for all type fire		_	Ans. (b) : Class B medium energy conservation opportunities.
Types of fire	Used material/ Device to extinguish	Class of fire	Class 'B' type of fire – Fire in a flammable fluid or combustible solid. CO ₂ , foam and powder is used to extinguish type of fire.
Carboneous fire	Water, sand, soil etc.	Class-A	13. Oily floor of the diesel workshop should be
Oily or liquid fire	Foam (FE), CO_2 extinguisher etc.	Class-B	cleaned by using
Gasious fire	CO_2 , Halon	Class-C	(a) Sand (b) Water
Electrical fire	Halon or CTC	Class-D	(c) Carbon-di-oxide (d) None of the above MP ITI T.O. Mechanic Diesel 08.11.2016
	extinguisher		NCVT 2016
9. If a worker	suffers an electric shock	K-	Ans. (a) : Oily floor of the diesel workshop should be
	en alcoholic drinks		cleaned by using sand.
	en cold drinks		14. Which is the motive of occupational health and
(c) Asked (d) Balken			safety? (a) Decrease employed morale
(u) be kep	t warm and covered RRB ALP Allahaba	d 09 12 2007	(a) Decrease employed morate (b) Decreasing the quality
ISR	O Technician-B Plumbe		(c) Reducing absentism
	rker suffers an electric sh		(d) Minimising productivity
kept warm and co			NCVT Mechanic Diesel 01.11.2019 Shift-II
10. Water is us	ed to extinguish :		Ans. (c) : Reducing obsentism is the motive of
(a) Class A	. ,		 occupational health and safety. The objective of occupational safety and health is to
(c) Class C			ensure the welfare, health and safety of workers
	yard T.A. Mechanic Die		employed in occupational work. Safe guarding
	A' type of fire – Fire cauge hard metals is classified a		workers from physical and mental harm at the
fire.	naru metais is classificu a	is A type of	workplace is also a function of occupational safety.
To extinguish this type of fire, we first direct the water-			15. What type of safety covers the wearing of safety shoes in workshops?
	the fire and move it from	side to side	(a) General safety (b) Personal safety
till the fire is extinguished.			(c) Machine safety (d) Occupational safety
11. Which type	e of indicator is shown in	figure?	NCVT Mechanic Diesel 01.11.2019 Shift-II
	$\langle \rangle$		DMRC (Maintainer) Fitter (Evening) 15.02.2017
	$\Delta \Delta$		Ans. (b) : Personal safety covers the wearing of safety shoes in workshops.
			Safety – Safety means to protect oneself and other
			colleagues from any accidents. Different safety
			practices and standards are used in workshops to
(a) Informa	ative symbol (b) Mandat	tory symbol	prevent accidents. Types of safety–
	tory symbol (d) Warnin	0 2	1. Self- safety/personal safety
	Jr. Inst. Mechanic Diese		2. General safety
Ans. (d) : Warning symbol is shown in figure.			3. Safety of machines.
 Warning signs – These signs are used to give warnings related to any 			16. Which is the occupational mechanical hazard ?
 These signs are used to give warnings related to any danger, such as electric shocks, fear of fire etc. 			(a) Sickness
 They are triangular in shape. 			(b) Current leakage
 They are triangular in shape. Their surface area is yellow and the safety sign and 			(c) Unguarded machinery(d) Wrong layout of machinery
border is coloured black.			NCVT Mechanic Diesel 01.11.2019 Shift-II
12. Which of the following pairs is correct for			Ans. (c) : Mechanical hazard–
Energy conservation opportunities?			 Unguarded machinery
(a) Class A-Major Energy Conservation			 No fencing
Opportunities (b) Class B-Medium Energy Conservation			No safety device
Opport		conservation	• No control device etc.
11			

	Which fire extinguisher used for flammable liquid fires?(a) Halon extinguisher(b) dry powder extinguisher(c) CTC extinguisher(d) Water extinguisherNCVT Mechanic Diesel 01.11.2019 Shift-II(b) : Dry powder extinguisher used for flammable	 (a) Class A (b) Class B (c) Class C (d) Class D NCVT Mechanic Diesel 01.11.2019 Shift-II DMRC (Maintainer) Fitter 24.12.2006 Ans. (c) : Class 'C' type of fire- Fire in a gas or a burning gas is classified as 'C' type of fire. This type of fire should be extinguished carefully because there is
11quid 18.	fires and foam extinguisher are most suitable. Which type of personal protection recommended to handle loads with rough	always a danger of blast or sudden spreading of fire. A dry powder fire extinguisher is used to extinguish this type of fire.
	surfaces and pointed projections?(a) Paper gloves(b) Rubber gloves(c) Leather gloves(d) Polythene gloves	25. Which fire extinguisher suitable for class "C" fire?
D	NCVT Mechanic Diesel 01.11.2019 Shift-II MRC (Maintainer) Fitter (Morning) 15.02.2017	(a) Foam filled extinguisher(b) Water filled extinguisher(c) Dry powder fire extinguisher
Ans.	(c) : Leather gloves recommended to handle loads ough surfaces and pointed projections.	(d) Carbon-di-oxide fire extinguisher NCVT Mechanic Diesel 01.11.2019 Shift-II
19.	More harmful in place of harmful?(a) Oxygen(b) Water vapour	Ans. (c) : Dry powder fire extinguisher suitable for class 'C' fire.
	(c) Carbon dioxide (d) Carbon mono oxide NCVT Mechanic Diesel 01.11.2019 Shift-II	26. Which factor isolate the fire from oxygen by blanketing ?
of har		(a) Cooling(b) starving(c) Misfiring(d) Smothering
20.	Which device is used to remove toxic waste?(a) Water wash(b) incinerators(c) Compressed air(d) Vacuum cleanerNSQF Mechanic Diesel 2020	NCVT Mechanic Diesel 01.11.2019 Shift-II Ans. (d) : Smothering is the method of extinguishing the fire by removing the oxygen with blanketing fire with foam, sand etc.
	NCVT Mechanic Diesel 01.11.2019 Shift-II	27. Which class of fire involves wood?
Ans.(21.	b):Incinerators device is used to remove toxic waste. What is the name of safety device?	(a) Class 'A' fire (b) Class 'B' fire (c) Class 'C' fire (d) Class 'D' fire
21.	what is the name of safety device.	NCVT Mechanic Diesel 01.11.2019 Shift-II
		BMRC Maintainer Fitter 2016
	CONTRACTOR OF THE OWNER OWNE	Ans. (a) : Class 'A' type of fire – Fire caught on wood, paper, clothes and hard metals is classified as 'A' type of
	(a) Goggle(b) Hand gloves(c) Hand screen(d) Helmet screenNCVT Mechanic Diesel 01.11.2019 Shift-IIDMRC (Maintainer) Fitter 20.07.2014	 fire. To extinguish this type of fire, we first direct the water-jet on the base of fire and move it from side to side fill the fire is extinguished.
Ans. device	(a) : In given figure, goggle is the name of safety	28. How the waste oil is disposed?
22.	Which distance is known as wheel base of the	(a) Hand over back to the customer(b) Throw the removed oil in the drain
	vehicle?(a) Centre to centre distance between front wheels(b) Centre to centre distance between rear wheels	(c) Keep in small containers in remote corners(d) Collect waste oil container and dispose to register vendors?
	(c) Centre to centre distance between front and	NCVT Mechanic Diesel 01.11.2019 Shift-II
	rear wheel (d) End to end distance between front and rear wheels	Ans. (d) : Collect waste oil container and dispose the register vendors.
	NCVT Mechanic Diesel 01.11.2019 Shift-II	29. Which type of energy to minimize the waste
	(c) : Wheel base of the vehicle is centre to centre	without affecting production? (a) Utilization of energy
23.	ce between front and rear wheel. What is first aid?	(b) Modification of energy
23.	(a) It is the emergency medical treatment	(c) Conservation of energy
	(b) It is an immediate life saving treatment	(d) Manipulation of energy
	(c) It is the intensive medical treatment	NCVT Mechanic Diesel 01.11.2019 Shift-II
	(d) It is the rule to assessing the treatment	LMRC (Maintainer) Fitter 16.03.2016
Ans.	NCVT Mechanic Diesel 01.11.2019 Shift-II (b) : First aid is an immediate life saving treatment.	Ans. (c) : Conservation of energy to minimize the waste without affecting production.
	, · · · · · · · · · · · · · · · · · · ·	

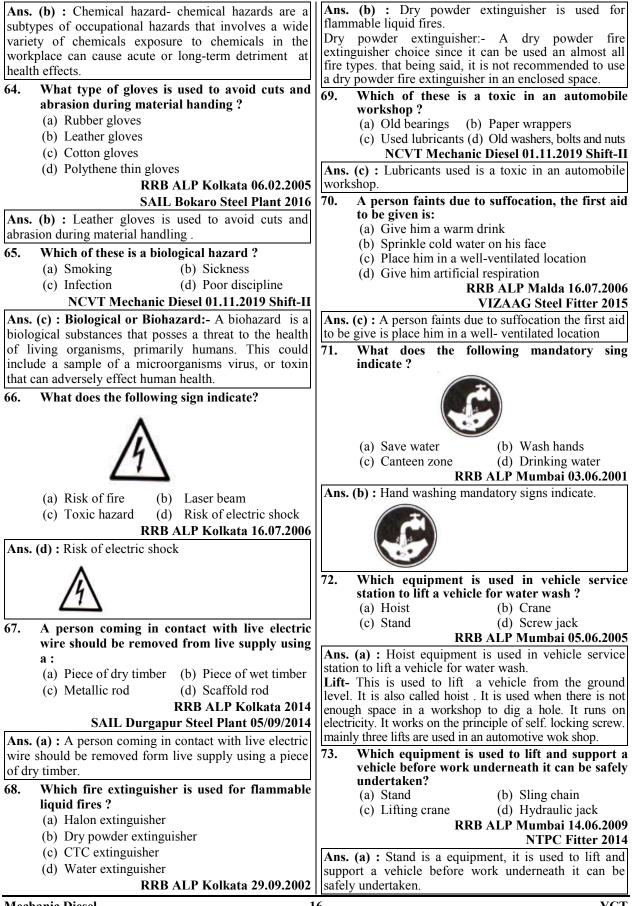
30. What type of energy reduce consumption by	Ans. (a) : Seiton under 5S, reduces all these except
replaces old bulb with new LED?	productivity.
(a) Utilization of energy	5'S is systematic approach to organize the work area,
(b) Modification of energy	that uses the 5 Japanese words : Seirii, Seiton, Seiso,
(c) Manipulation of energy	Seiketsu and Shitsuke.
(d) Conservation of energy	36. What phase of 5S is concerned with colour
NCVT Mechanic Diesel 01.11.2019 Shift-II	coding of tools?
Ans. (d) : Conservation of energy reduce consumption	(a) Sort (b) Set in Order
by replaces old bulb with new LED.	(c) Shine (d) Standardize
31. Which is the major energy conservation	NCVT NIMI Mechanic Diesel 2019
opportunities?	Ans. (d) : Standardize of 5S is concerned with colour
(a) Stopping of leakage	coding of tools.
(b) Replacement machineries	Seiketsu (Standardize)–
(c) Replacement of house hold appliance	(i) Maintain high standards of cleaning or house
(d) Lap in house keeping	keeping.
NCVT Mechanic Diesel 01.11.2019 Shift-II	(ii) Maintain everything in order.
Ans. (b) : Replacement machineries is the major energy	37. The tool used to show movement of product is
conservation opportunities.	?
32. Dressing and bandages are used to?	(a) Histogram (b) Control Chart
(a) Reduce the victim s pain.	(c) Process Flow Chart (d) Scatter Diagram
(b) Reduce internal bleeding.	NCVT NIMI Mechanic Diesel 2019
(c) Help control bleeding and prevent infection	DRDO Turner 2011
(d) Make is easier to take the victim to the	Ans. (c) : The tool used to show movement of product
hospital	is process flow chart.
NCVT NIMI Mechanic Diesel 2019	
Noida Metro Maintainer Fitter 2017	blanketing is called :
Ans. (c) : Dressing and bandages are used to help	(a) Starving (b) Smothering
control bleeding and prevent infection.	(c) Cooling (d) Extinguishing
33 is best suited to extinguishing oil or	
flammable liquid fire?	Ans. (b) : Isolate the fire from the supply of oxygen by
(a) Foam (b) Water	blanketing is called smothering.
(c) Dry chemicals (d) Soda acid	39. What is the effect of air borne dust in
NCVT NIMI Mechanic Diesel 2019	workshop?
Ans. (a) : Foam is the best suited to extinguishing oil or	(a) Diarrhoea (b) Dehydration
flammable liquid fire. They should not be used for	(c) Throat infection (d) Rise in blood pressure
extinguishing the fire has two containers, external and	NSQF Mechanic Diesel 2020
internal.	NCVT Mechanic Diesel 01.11.2019 Shift-II
34. Which of these is correct about energy conversion in an engine?	Ans. (c) : The effect of air borne dust is throat infection
(a) Chemical energy to electrical energy	in workshop.
(b) Electrical energy to kinetic energy	40. If an accident occur while working?
(c) Chemical energy to kinetic energy	(a) Stand with public at accident place
(d) Electrical energy to heat energy	(b) Run away from the accident spot
NCVT NIMI Mechanic Diesel 2019	(c) Inform your superior regarding an accident
Ans. (c) : The energy stored within the fuel is in the	(d) Due away from agaidant site
form of chemical energy. The engine of a car works by	HPSSC Mechanic Diesel (Instructor) 2018
burning of fuel. If burns the fuel and produces	DRDO Machinist 2016
mechanical energy (Kinetic energy + potential energy)	Ans. (c) : If a accident occur while working then
Energy conversion process–	immediately inform your superior regarding on accident.
Combustion	41. Fire on electric wire can be controlled by?
machine Generator	(a) Put water on it
\longrightarrow mechanical energy \longrightarrow electrical energy.	(b) C.T.C. Fire Extinguisher
35. Seiton under 58, reduces all these	
except?	(d) Foam fire extinguisher
(a) Productivity	HPSSC Mechanic Diesel (Instructor) 2018
(b) Excess motion	Ans. (b) : Fire on electric wire can be controlled by
(c) Human frustration	C.T.C. fire extinguisher.
(d) Time wasted in searching	A cylinder made of brass is filled with a liquid
NCVT NIMI Mechanic Diesel 2019	
DRDO Fitter 2016	





Mechanic Diesel

 Computerization Who can operate a machines properl? (a) Skilled human labour (b) Skilled human labour (c) Both (a) & (b) (d) None of above RRB ALP Chennai 06.06.2010 (a) Skilled human labour and skilled ignineer can operate a machine properly (a) Accident (b) Incident (c) Both (a) & (b) (b) (b) (c) (d) None of above (c) Both (a) & (b) (b) (c) (d) None of above (c) Both (a) & (b) (b) (c) (d) None of above (c) Both (a) & (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	 Ans. (d) : Like a wheel from starting to present in industrial revolution development the following are included- Wheel Atomization 	59.Process included in basic life support, which of the following is included : (a) Clean airway (b) Re-start Breathing (c) Restart-heart beat (d) All of above RRB ALP Gorakhpur 21.10.2001
 3. Who can operate a machines property? (a) Skilled human labour (b) Skilled human labour and skilled (c) Both (a) & (b) (d) None of above RRB ALP Chennai 06.06.2010 Ans. (c) : Both skilled human labour and skilled (e) Both (a) & (b) (f) None of above (f) Accident (g) Accident (h) Incident (g) Accident (h) Incident (g) Accident (h) Incident (h) State the support (ML2) incident is not a reason for accident? (h) Market of the following incident is not a reason for accident? (h) Market of any incident is called. (h) Incident (h) Fingers are cuts by suddenly breaking of hacksaw blade (h) Fingers are cuts by suddenly breaking of hacksaw blade (h) Fingers are cuts by suddenly breaking of hacksaw blade (h) Fingers are cuts by suddenly breaking of hacksaw blade (h) Fingers are cuts by suddenly breaking of hackets (d) None of above (h) Curiosity (h) Hard work (c) Not know (d) None of above (d) Check for broken limbs (e) Keep the body warn with blankets (d) Check for broken limbs (e) Keep the body warn with blankets (f) For First Aid which of the following symbol is used. Ans. (a) : If a patient does not respond to mouth to mouth resuscitation treat, a first-aid should inmediately accelent is a result of improper information- or (a) Accident is a result of improper information- or (b) Check for broken limbs (c) Not know (d) None of above (d) All of above (e) Not know (d) None of above (f) For First Aid which of the following which is not a reason for accident? (a) Not Interest in work (b) Very attentive is not a reason for accident? (a) Not Interest in work (b) Nery attentive is not a reason for accident. (b) Check for broken l		
 Ans. (c) : Both skilled human labour and skilled engineer can operate a machine property 54. Uncontrolled or sad result of any incident is called: (a) Accident (b) Incident (c) Both (a) & (b) (d) None of above Ans. (a) : Uncontrolled or sad result of any incident is a specific nature? (a) Accident. 55. In a human nature what is a specific nature? (a) Carcianty (b) Hard work (c) Not know (d) None of above RRB ALP Gorakhpur 08.10.2006 Indian Ordnance Factory 2014 Ans. (a) : In a human nature curiosity is a specific nature? (a) Seek medical help (b) Check for broken limbs (c) Keek medical help (b) Check for broken limbs (c) Keep the body warm with blankets (d) Check pupils of eyes and pulse RRB ALP Gorakhpur 11.1.10.2006 Ans. (a) : If a patient does not respond to mouth to mouth resuscitation treat, a first- aider should immediately seek medical help. (c) Not know (d) Check pupils of eyes and pulse RRB ALP Gorakhpur 11.1.10.2007 Ans. (b) : Accident is a result of any incident is called accident. 58. For prevent from Carbonasious fire we can use: (a) Watr (b) Check for is a result of any incident is called accident. 59. For prevent from Carbonasious fire we can use: (a) Watr (b) And (c) Dirt (c) All of above RRB ALP Gorakhpur 14.0.2007 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. (a) All of above fire the pee of occupational health hazard which involves 'toric' is: (a) Chemical hazard (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard 	 53. Who can operate a machines properly? (a) Skilled human labour (b) Skilled Engineer (c) Both (a) & (b) 	of signs of sudden cardiac arrest heart attack, stroke, and foreign body airway abstraction, and the performance of cardiopulmonary resuscitation (CPR) with an automated external defibrillator.
 Ans. (c) : Both skilled human labour and skilled engineer can operate a machine properly 54. Uncontrolled or sad result of any incident is (a) Accident (b) Incident (c) Both (a) & (b) (d) None of above RRB ALP Chemai 27.10.2007 Ans. (a) : Uncontrolled or sad result of any incident is called Accident. 55. In a human nature what is a specific nature? (a) Curiosity (b) Hard work (c) Not know (d) None of above RRB ALP Gorakhpur 98.10.2006 Ans. (a) : In a human nature curiosity is a specific nature? (a) Curiosity means desire of knowledge. 56. If a patient does not respond to mouth to mouth resuscitation treat, a first-aidd should immediately		
 54. Uncontrolled or sad result of any incident is called: (a) Accident (b) Incident (c) Both (a) & (b) (d) None of above Ans. (a): Uncontrolled or sad result of any incident is called Accident. 55. In a human nature what is a specific nature? (a) Curiosity (b) Hard work (c) Not know (d) None of above Ans. (a): In a human nature curiosity is a specific nature. (a) Curiosity means desire of knowledge. 56. If a patient does not respond to mouth to mouth resuscitation treat, a first-aid should immediately	Ans. (c) : Both skilled human labour and skilled	(a) Hammer dropped out from hand, stuck to
RRB ALP Chennai 27.10.2002Ans. (a) : Uncontrolled or sad result of any incident is called Accident.S. In a human nature what is a specific nature? (a) Curiosity (b) Hard work (c) Not know (d) None of above RRB ALP Gorakhpur 08.10.2006 Indian Ordnance Factory 2014Ans. (a) : In a human nature curiosity is a specific nature. • Curiosity means desire of knowledge.S. If a patient does not respond to mouth to mouth resuscitation treat, a first-aid should immediately	called: (a) Accident (b) Incident	(b) Fingers are cuts by suddenly breaking of hacksaw blade(c) Cut the fingers for making money from
 55. In a human nature what is a specific nature? (a) Curiosity (b) Hard work (c) Not know (d) None of above RB ALP Gorakhpur 08.10.2006 Indian Ordnance Factory 2014 Ans. (a) : In a human nature curiosity is a specific mature. Curiosity means desire of knowledge. 56. If a patient does not respond to mouth to mouth resuscitation treat, a first-aid should immediately	RRB ALP Chennai 27.10.2002 Ans. (a) : Uncontrolled or sad result of any incident is	(d) Hand bone are broken by Slip on floor due to Oil on it
 (c) Not Now W(0) Note of above RRB ALP Gorakhpur 08.10.2006 Indian Ordnance Factory 2014 Ans. (a) : In a human nature curiosity is a specific mouth resuscitation treat, a first-aid should immediately	55. In a human nature what is a specific nature?(a) Curiosity(b) Hard work	Ans. (c) : Cut the fingers for making money from
 hatture. Curiosity means desire of knowledge. Curiosity means desire of knowledge. 56. If a patient does not respond to mouth to mouth resuscitation treat, a first-aid should immediately	RRB ALP Gorakhpur 08.10.2006 Indian Ordnance Factory 2014	
 mouth resuscitation treat, a first-aid should immediately	nature. ■ Curiosity means desire of knowledge.	(A) (B) (B)
 (c) Keep the body warm with blankets (d) Check pupils of eyes and pulse RRB ALP Gorakhpur 11.10.2009 Ans. (a) : If a patient does not respond to mouth to mouth resuscitation treat, a first- aider should immediately seek medical help. 57. What is a result of improper information : (a) Dry (b) Accident (c) Not know (d) None of above RRB ALP Gorakhpur 12.10.2003 Ans. (b) : Accident is a result of improper information-or uncontrolled or said result of any incident is called accident. 58. For prevent from Carbonasious fire we can use: (a) Water (b) Sand (c) Dirt (d) All of above RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing 	 mouth resuscitation treat, a first-aid should immediately	
Indian Ordnance Factory 2012 Indian Ordnance Factory 2013	(d) Check pupils of eyes and pulse	(c) C (d) D
 Ans. (a) : If a patient does not respond to mouth to mouth resuscitation treat, a first-aider should immediately seek medical help. 57. What is a result of improper information: (a) Dry (b) Accident (c) Not know (d) None of above Ans. (b) : Accident is a result of improper information-or uncontrolled or said result of any incident is called accident. 58. For prevent from Carbonasious fire we can use: (a) Water (b) Sand (c) Dirt (d) All of above RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing 		
 (a) Dry (b) Accident (c) Not know (d) None of above RRB ALP Gorakhpur 12.10.2003 Ans. (b) : Accident is a result of improper information-or uncontrolled or said result of any incident is called accident. 58. For prevent from Carbonasious fire we can use: (a) Water (b) Sand (c) Dirt (d) All of above RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing First aid is a priority where medical intervention is needed. 	mouth resuscitation treat, a first- aider should immediately seek medical help.	Ans. (c) :First aid sign- A white cross an a green background is the internationally accepted symbol for
 or uncontrolled or said result of any incident is called accident. 58. For prevent from Carbonasious fire we can use: (a) Water (b) Sand (c) Dirt (d) All of above RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing 62. From the following which is not a reason for accident? (a) Not Interest in work (b) Very attentive (c) Very Curious (d) Indiscipline 63. The type of occupational health hazard which involves "toxic" is: (a) Physical hazard (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard 	 (a) Dry (b) Accident (c) Not know (d) None of above 	
 58. For prevent from Carbonasious fire we can use: (a) Water (b) Sand (c) Dirt (d) All of above 62. From the following which is not a reason for accident? (a) Not Interest in work (b) Very attentive (c) Very Curious (d) Indiscipline RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 63. The type of occupational health hazard which involves "toxic" is: (a) Physical hazard (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard 	or uncontrolled or said result of any incident is called	
 S8. For prevent from Carbonasious fire we can use: (a) Water (b) Sand (c) Dirt (d) All of above RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing accident? (a) Not Interest in work (b) Very attentive (b) Very Curious (c) Very Curious (d) Indiscipline Ans. (b) : Very attentive is not a reason for accident. (a) Physical hazard (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard 		62. From the following which is not a reason for
 (a) Water (b) Sand (c) Dirt (d) All of above RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing (a) Not Interest in work (b) Very attentive (c) Very Curious (d) Indiscipline RRB ALP Kolkata 02.11.2008 Ans. (b) : Very attentive is not a reason for accident. (a) Not Interest in work (b) Very attentive (c) Very Curious (d) Indiscipline (e) Physical hazard (f) Chemical hazard (g) Physical hazard (h) Chemical hazard (h) Mechanical hazard 	•	
 (c) Dirt (d) All of above RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing (c) Very Curious (d) Indiscipline RRB ALP Kolkata 02.11.2008 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing (a) Physical hazard (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard 		
RRB ALP Gorakhpur 14.04.2002 Indian Ordnance Factory 2013 RRB ALP Kolkata 02.11.2008 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. Ans. (b) : Very attentive is not a reason for accident. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing Galary (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard		
 Ans. (d) : We can used water sand and Dirt for prevent from carbonaceous fire. The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing 63. The type of occupational health hazard which involves "toxic" is: (a) Physical hazard (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard 	RRB ALP Gorakhpur 14.04.2002	
from carbonaceous fire. ■ The reason for carbon dioxide being used in fire extinguishers is because of its capability of replacing (a) Physical hazard (b) Chemical hazard (c) Biological hazard (d) Mechanical hazard		· · · · ·
extinguishers is because of its capability of replacing (c) Biological hazard (d) Mechanical hazard	from carbonaceous fire.	involves "toxic" is:
	extinguishers is because of its capability of replacing	(c) Biological hazard (d) Mechanical hazard



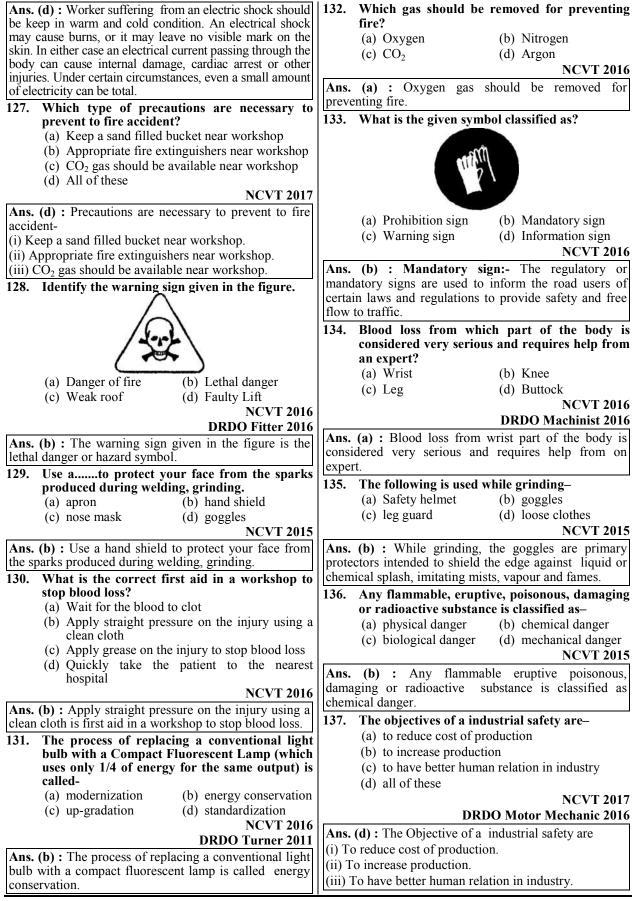
 74. Which oil is harmful to the environment? (a) Engine oil (b) Hydraulic oil (c) Seeds/nuts oil (d) Used engine oil RRB ALP Mumbai 15.07.2012 Ans. (d): Used engine oil is harmful to the environment. 75. What can cause fire while refueling hot engine? (a) Vapours (b) Paper (c) Cloth (d) Leather 	 81. Which part of body bleeding profusely in considered serious and need professional attention? (a) Leg of the human body (b) Knee of the human body (c) Wrist of the human body (d) Thigh of the human body NCVT Mechanic Diesel 01.11.2019 Shift-II
RRB ALP Mumbai 16.07.2006 Ans. (a) : Vapours can cause fire while refueling hot	Ans. (c) : Wrist of human body part of body bleeding profusely in considered serious and need professional
engine. 76. Which gas is harmful to human health ? (a) Nitrogen (b) Water vapour (c) Carbon dioxide (d) Carbon monoxide NCVT Mechanic Diesel 01.11.2019 Shift-II BHEL Hyderabad Fitter 2014 Ans. (d) : Carbon monoxide gas is harmful to human health.	attention. 82. How to treat burns and scalds? (a) Blow hot air on the injured part (b) Blow cool air on the injured part (c) Cover the injured part with cool water (d) Cover the injured part with hot water NCVT Mechanic Diesel 01.11.2019 Shift-II
77. Which type of fuel contains more carbon monoxide ?	CRPF Constable Tradesman 2016 Ans. (c) : Covered the injured part with cool water to
(a) Solid fuel (b) Burnt fuel	treat burn and scalds.
(c) Liquid fuel (d) Un-burnt fuel RRB ALP Mumbai 05.01.2003	83. Which device is best for use to control toxic
Ans. (d) : Un -burnt type of fuel contains more carbon monoxide. Carbon monoxide is produced by incomplete	waste ?(a) Wire brush(b) Cotton waste(c) Air compressor(d) Vacuum cleanerRRB ALP Patna 2014
combustion of fuels.	Ans. (d) : Vacuum cleaner is a device which is best for
• The complete combustion of fuels will give carbon dioxide	use to control toxic waste.
	An oily floor should be cleaned by saw dust. bn
$C + \frac{1}{2}O_2 \rightarrow CO$ $C + O_2 \rightarrow CO_2$ 78. Which automobile component produces dust ? (a) Axle (b) Piston (c) Gearbox (d) Brake shoe	 84. What comes under first aid ? (a) Treating a victim for a shock (b) Completing the primary shock (c) Assessing a victim's vital signs (d) Immediate care and support to the injured person
RRB ALP Muzaffarpur 15.02.2009 Ans. (d) : Brake shoe automobile component produces	RRB ALP Ranchi 04.09.2005
dust.	HAL Fitter 2015
 79. Which material can cause lung cancer? (a) Fibre (b) Wood (c) Graphite (d) Asbestos 	Ans. (d) : First aid is the assistance given to any person suffering a sudden illness or injury, with care provided to preserve life, prevent and condition from worsening or to promote recovery.
RRB ALP Patna 04.02.2007 COAL India Fitter 2013	85. What is biological hazard ?
Ans. (d) : Asbestos material can cause of lung cancer.	(a) Virus (b) Fatigue (c) Alcoholism (d) Old age
■ Exposure to certain hazardous chemicals poses of	(c) Alcoholism (d) Old age RRB ALP Ranchi 08.07.2007
lung cancer risk. Working with materials such as asbestos, uranium, arsenic, cadmium, chromium, nickel	Ans. (a) : Virus is biological hazard.
and some petroleum products is especially dangerous.	Biological health hazards include viruses, parasites and
80. What is ABC in first aid ?	moulds or fungi, they can pose a threat to human health
(a) Army, Branch, Calculate(b) Aviation, Breathing, Cumin	when they are inhaled, eaten or come in contact with skin.86. What is the first action if a colleague (victim)
(c) Away, Breathing, Calculation	received a heavy electric shock ?
(d) Airway, Breathing, Circulation	(a) Pull the victim from the live conductor
RRB ALP Patna 11.11.2001	(b) Pour water to avoid burning of victim
Ans. (d) : ABC in first aid is- A→Airway	(c) Fetch the first and box
$A \rightarrow All way$ $B \rightarrow Breathing$	(d) Switch off the current immediately
$C \rightarrow$ Circulation.	RRB ALP Ranchi 19.01.2003 Mazagon Dock Shipbuilders Ltd. 2013
	Mazagon Dock Sinpbunders Etd. 2015

Ans. (d) : Switch off the current immediately is the first	92. Which type of fire extinguisher is suitable for
action if a colleague(victim) received a heavy electric	extinguishing class 'A' fire ?
shock.	(a) Halon (b) Dry powder
A loose connection or faculty wiring in the factory can	(c) Foam or water (d) Carbon dioxide
cause fire or electric shocks. This reasons also invite	RRB ALP Siliguri 2014
accidents.	ISRO Technician-B Carpenter 27.11.2016
87. What does 'horseplay' refer to ?	Ans. (c) : Foam or water extinguisher is suitable for
(a) Animals (b) Game of horses	extinguishing class 'A' fire.
(c) Fooling around (d) Throwing hay	Class 'A' Type of fire:- Fire caught on wood, paper, clothes and hard metal is classified as 'A' types of fire.
RRB ALP Ranchi 2014	To extinguish this type of fire, we first direct the water
Ans. (c) : The horseplay refer to fooling around.	jet on the base of the fire and move it from side to side
88. What three elements must be present to cause a	till the fire is extinguished.
fire ?	93. Which fire extinguisher is suitable for
(a) Fuel + Heat + Oxygen	extinguishing class 'Č' fire?
(b) Oxygen + Fuel + Paper	(a) Foam filled extinguisher
(c) Heat + water + Oxygen	(b) Water filled extinguisher
(d) Smoke + Fuel + Oxygen	(c) Dry powder fire extinguisher
RRB ALP Ranchi 21.09.2003	(d) Carbon dioxide fire extinguisher
	RRB ALP Trivandrum 20.06.2004
Ans. (a) : Fuel+ Heat+ oxygen, three elements must be present to cause a fire.	Ans. (c) : Dry powder fire extinguisher is used to class
Fire in a workshop is caused due to the following	'C' fire.
reasons-	Fire in gas or a burning gas is classified as 'C' type of fire.
(i) loose electric wires.	
(ii) Heavy load on electric wires.	94. Stating "Don't spill the fuel on workplace can be said to be related to:"
(iii) smoking in the workshop.	(a) General safety
(iv) carelessness towards flammable substances.	(b) Personal safety
	(c) Machine safety
89. What should not be used on burning liquids ?	(d) General and machine safety
(a) CO_2 (b) Foam	
	RRB ALP Ahmadabad 2014
(c) Sand (d) Water	RRB ALP Ahmadabad 2014 ISRO Technician-B Fitter 20.11.2016
(c) Sand (d) Water RRB ALP Secunderabad 06.06.2010	ISRO Technician-B Fitter 20.11.2016 Ans. (a) : General safety- this following precautions
(c) Sand (d) Water RRB ALP Secunderabad 06.06.2010 MES Automobile Tradesman 2015	ISRO Technician-B Fitter 20.11.2016 Ans. (a) : General safety- this following precautions regarding general safety should be taken in a workshop
(c) Sand (d) Water RRB ALP Secunderabad 06.06.2010 MES Automobile Tradesman 2015 Ans. (d) : Water should not be used extinguisher on	ISRO Technician-B Fitter 20.11.2016 Ans. (a) : General safety- this following precautions regarding general safety should be taken in a workshop (i) We should not smoke in the workshop.
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 (c) Sand (d) Water RRB ALP Secunderabad 06.06.2010 MES Automobile Tradesman 2015 Ans. (d) : Water should not be used extinguisher on burning liquids. Class 'B' type of fire:- Fire in a flammable fluid or combustible solid is classified as 'B' type of fire. CO₂, foam and dry powder is used to extinguish this type of fire. Don't use water to extinguish this type of fire. 	 ISRO Technician-B Fitter 20.11.2016 Ans. (a) : General safety- this following precautions regarding general safety should be taken in a workshop (i) We should not smoke in the workshop. (ii) Any heavy objects in the workshop should be picked up carefully. (iii) Flammable substance should be kept at safe places in a workshop. (iv) There should be no naked electric wire in a workshop.
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 (c) Sand (d) Water RRB ALP Secunderabad 06.06.2010 MES Automobile Tradesman 2015 Ans. (d) : Water should not be used extinguisher on burning liquids. Class 'B' type of fire:- Fire in a flammable fluid or combustible solid is classified as 'B' type of fire. CO₂, foam and dry powder is used to extinguish this type of fire. Don't use water to extinguish this type of fire. 90. Which type of fire extinguisher is not suitable for electric fire ? (a) CO₂ (b) CTC (c) Foam (d) Dry powder RRB ALP Secunderabad 11.11.2001 Ans. (c) : Foam type of fire extinguisher is not suitable for electric fire. A fire caused due to metal or electricity is classified as 'D' type of fire. carbon dioxide (CO₂), dry power, CTC, extinguisher are used to extinguish this type of fire. 91. What is used to extinguish class 'B' fire ? (a) CO₂ (b) Argon (c) Oxygen (d) Nitrogen RRB ALP Secunderabad 29.06.2008 Ans. (a) : CO₂ is used to extinguish class 'B' fire. Fire in a flammable fluid or combustible solid is classified as 'B' type of fire. 	 ISRO Technician-B Fitter 20.11.2016 Ans. (a) : General safety- this following precautions regarding general safety should be taken in a workshop We should not smoke in the workshop should be picked up carefully. Any heavy objects in the workshop should be picked up carefully. Flammable substance should be kept at safe places in a workshop. There should be no naked electric wire in a workshop. There should be no naked electric wire in a workshop. There should be no naked electric wire in a workshop. There should be no naked electric shock victim is unable to release his grip from the conductor ? Make sure the power is turned off Cover all burns with a dry loose dressing Place the victim on one side with head down Ask a bystander to help you to move the victim NCVT Mechanic Diesel 01.11.2019 Shift-II Ans. (a) : make sure the power is turned off if an electric shock victim is unable to release his grip from the conductor. Separate the patient from any electrical contact using wood or rubber shoes. remove the plug from the socket. If an electrician is struck on the overhead line then immediately throw an iron chair over the wires. This causes short circuit in the wire and cuts off the supply. 96. Which type of energy conservation opportunity involves stopping of water leakage points ?



(a) Dull Air Squaaga Spray	() From Fire artigenishers. This was be of stored
(c) Pull, Air Squeeze, Spray(d) Pull, Aim, Squeeze, Spray	(i) Foam Fire extinguisher:- This may be of stored pressure or gas cartridge type. they are used to
RRB ALP Bangalore 08.07.2007	extinguish flammable liquid fire or a running grease
Ans. (a) : To use fire extinguishers correctly, remember	fire. they should not be not be for extinguishing the fire
the P.A.SS acronym:	in electrical device.
$\blacksquare P = PULL the pin on the fire extinguisher.$	110. Which fire-extinguisher is used for
• $A = AIM$ the extinguisher nozzle at the base of the fire.	extinguishing fire caught in electric cables?
• S= SQUEEZE or press the handle.	(a) Oil (b) Water
• S = SWEEP from side to side until the fire appears to	(c) C.C.T. fire-extinguisher (d) Foam
be out	RRB ALP Bilaspur 15.07.2012
106. There are usually certain colours used on safety	Ans. (c) : C.T.C fire extinguisher is used for
signboards. Which one is for prohibition?	extinguishing fire caught in electric cables.
(a) Red (b) Yellow	■ This is suitable for electrical fires caused by
(c) Green (d) Purple	appliances, tools and other plugged in gear.
RRB ALP Bangalore 15.07.2012	• They are more effectively in extinguishing small
ISRO Technician-B Turner 22.11.2016	fires involving pouring liquids.
Ans. (a) : classification of sign in the road traffic:	111. Which of the following is not an insulator?
(i) Mandatory/ prohibitory sign.	(a) Gold (b) Glass
(ii) Warning sign.	(c) Mica (d) Wood
(iii) Information sign.	RRB ALP Chandigarh 14.09.2008
(i) Mandatory/ Prohibitory sign:-The regulatory or	DMRC (Maintainer) Fitter (Morning) 15.02.2017
mandatory signs are used to inform the road users of	Ans. (a) : ■ Gold is not an insulator.
certain laws and regulations to provide safety and free	■ Insulators are material that does not conduct
flow to traffic.	electricity. Example - paper, plastic, rubber, glass, mica,
107. Which fire extinguisher (FE) is suitable for a	wood, Ebonite,- air, Styrofoam, etc
live electric fire?	112. What is the full form of I.T.I.?
(a) Soda acid FE (b) Water filled FE	
(c) Foam FE (d) C.T.C. FF	(a) Indian Tester Industry (b) Indian Telephone Institute
RRB ALP Bhopal 06.06.2010	(b) Indian Telephone Institute(c) Industrial Training Institute
Ans. (d) : C.T.C Fire Extinguisher:- This equipment	(d) Industrial Technical Institute
is uses to extinguish fire caused due to electricity. A cylinder made of brass is filled with a liquid substance	(d) industrial reclinical institute NCVT 2015,16
of carbon tetrachloride and Bromochlorodi fluoro	
methane (BCF).	Ans. (c) : The full form of I.T.I is Industrial Training Institute. The Directorate General of Employment and
108. Besides a CO_2 fire extinguisher, which type of	Training manages ITI. They are an agency of the
fire extinguisher can you use on electrical fires?	ministry of skill Development and Entrepreneurship.
(a) Foam	113. An industrial training institute providesto
(b) CTC extinguisher	strengthen the economy of a nation.
(c) Dry chemical extinguisher	(a) engineer (b) clerk
(d) Soda acid extinguisher	(c) mechanic (d) skilled mechanic
RRB ALP Bhubneswar 14.06.2009	RRB ALP Chandigarh 15.07.2012
DMRC (Maintainer) Fitter (Evening) 15.02.2017	Ans. (d) : An industrial training institute provides
Ans. (c) : The dry chemical extinguishers include	skilled mechanic to strengthen the economy of a nation.
sodium bicarbonate/ potassium bicarbonate	114. Which is the class C-fire?
(NaHCO ₃ /KHCO ₃) and potassium chloride base agent.	(a) Metal fire (b) Wood fire
Note- Carbon tetra clorid (CTC) also used for electric	(c) Electrical fire (d) Flammable liquid fire
fire extinguisher.	(c) Electrical life (d) Flammable inquite life NCVT 2018
109. Which fire-extinguisher should be used for	DMRC (Maintainer) Fitter 20.07.2014
extinguishing fire caught in petrol?	Ans. (d) : : Flammable liquid fire is the class C- fire.
(a) Foam fire-extinguisher (b) Carbon diavida fire artinguisher	
(b) Carbon dioxide fire-extinguisher	Class 'c' type of fire:- Fire in a gas or a burning gas is classified as 'C' type of fire. This type of fire should be
(c) Dry powder fire-extinguisher(d) All of these	classified as 'C' type of fire. This type of fire should be extinguished carefully because there is always a danger
(d) All of these RRB ALP Bhubneswar 15.07.2012	of blast or sudden spreading of fire.
Ans. (d) : Fire- extinguisher should be used for	115. Which process comes under the periodical
extinguishing fire caught in petrol-	maintenance?
(i) Foam fire extinguisher.	(a) Brake failure (b) Engine seizure
(ii) Carbon dioxide fire extinguisher.	(c) Replace oil filter (d) Air lock in fuel system
(iii) Dry powder fire- extinguisher.	(c) Replace on Inter (d) An lock in fuel system NCVT 2018
(in) Dry powder me extinguisher.	NC V I 2018

Ans. (c) : Periodical maintenance works by calculating the period in which equipment failure is expected. To recap, the periodic maintenance service of your car	Ans. (b) : The capacity to do work is known as energy. ■ Work and energy has the same unit. The unit in SI system is joule while that in CGS system is erg.
consists of-	121. The amount of oxygen in the environment is
 Engine oil and oil filter change. Air filter and fuel filter cleaning and replacement if required 	approx (a) 8.75% (b) 12.85%
required.Inspection of engine cooling system and top up of	(c) 16.85% (d) 20.95%
coolant.	NCVT 2016 Ans. (d) : The amount of oxygen in the environment is
116. Which is the chemical hazard?	approx 20.95% Air is a mixture of gases. It contains 78-
(a) Noise (b) Vibration (c) Smoking (d) Explosive	79% nitrogen, 21% oxygen, 0.93% organ, 0.03%
(d) Explosive NCVT 2018	Carbon dioxide, and traces of hydrogen, helium, and other "noble" gases.
NCVT Mechanic Diesel 01.11.2019 Shift-II	122. Which of the following method should be used
Ans. (d) : Explosive is the chemical hazard.	for giving artificial respiration to a person?
Explosive:- These substance may get explode due source of ignition, temperature increase i.e. ammonium	(a) Schafer's method (b) Water
nitrite.	(c) Both (a) and (b) (d) None of these NCVT 2016
117. Which is the physical hazard?	Ans. (a) : Schafer's method should be used for giving
(a) Toxic (b) Noise	artificial respiration to a person.
(c) Infection (d) Current leakage NCVT 2018	123. The working efficiency of diesel fuel is specified
DMRC (Maintainer) Fitter 24.12.2006	by
Ans. (c) : The main factors and conditions associated	(a) cetane number (b) octane number (c) both (a) and (b) (d) none of these
with physical hazards include:	NCVT 2016
(i) Illumination	LMRC (Maintainer) Fitter 16.03.2016
(ii) Electricity (iii) Heat and cold stress	Ans. (a) : The working efficiency of diesel fuel is
(iv) Radiation (Ionizing of non Ionizing)	specified by cetane number.
(v) Noise	The cetane number (cetane rating) is an indicator of the combustion of diesel fuel and the compression
(vi) Vibration	needed for ignition.
118. Which one of the following leads to brake down maintenance?	■ Cetane number is the range of 41-50
(a) Fan belt cut	124. What is used for power transmission in a
(b) Wheel alignment	power steering?
(c) Engine oil change	(a) Liquid substance(b) Grease(c) Compressed air(d) Atmospheric air
(d) Adjust wall clearance NCVT 2018	NCVT 2016
Ans. (c) : Breakdown maintenance:-	Ans. (a) : Liquid substance is used for power
 This is called corrective maintenance or emergency 	transmission in a power steering.
maintenance.	Power steering reduces driver fatigue.In power steering, the oil output is directly
• A machine is permitted to run without much attention till it breaks down.	proportional to steer speed.
119. What shouldn't be used to extinguish a burning	125. Which of the following component has the simplest structure?
liquid? (a) CO_2 (b) Water	(a) Oxygen (b) Carbon
(c) Dry powder (d) Foam	(c) Nitrogen (d) Hydrogen
NCVT 2015	NCVT 2016
Ans. (b) : Water shouldn't be used to extinguish a	Noida Metro Maintainer Fitter 2017
burning liquid.Water cannot be used as a fire extinguisher to put	Ans. (d) : A molecule is the simplest structural unit of a substance that still keeps the properties of the
out burning oils such as gasoline, diesel, and so on.	substance, like a molecule of water.
 Because oil is lighter than water, it floats over it and continues to burn. 	126. A worker suffering from an electric shock should be-
120. The capacity to work is known as	(a) given an alcoholic drink
(a) strength (b) energy	(b) given a cold drink
(c) frequency (d) resistance	(c) asked to walk(d) keep in warm and cold condition
NCVT 2016 BMRC Maintainer Fitter 2016	(d) keep in warm and cold condition NCVT 2017
DIVIKU Waintainer ritter 2010	



138.	The weight carrying capacity of a vehicle is determined by-	Ans : (d) Overalls and Gloves and apron should be worn for body protection.
	(a) motor act (b) motor vehicles act	× 1
	(c) both (a) and (b) (d) none of these	146. While grinding always(a) Stand in front of the wheel
	NCVT 2016	
	(b) : The weight carrying capacity of a vehicle is	
	nined by motor vehicles act.	(c) Wear goggles(d) Both (a) and (c)
	ct to consolidate and amend the law relating to	(d) Both (a) and (c) RRB ALP Gorakhpur 21.10.2001
-	vehicles.	Indian Ordnance Factory 2016
139.	A is used in a self circuit to protect the wiring from catching fire.	Ans : (b) Always stand on the side of the wheel while
	(a) earth point (b) fuse	grinding with a grinder at work site as sparks coming
	(c) solenoid switch (d) jumper	out from the wheel can harm you and wear eye glasses.
	RRB ALP Chandigarh 25.05.2003	147. An accident is–
Ans.	(c) : A solenoid switch is used in a self circuit to	(a) Unplanned event
	et the wiring from catching fire.	(b) Uncontrollable event
140.	The first aid for snake bite is	(c) Undesirable event
	(a) Pour water on the wound	(d) All of the above
	(b) Applying antiseptic to the wound	(d) An of the above RRB ALP Guwahati 22.01.2006
	(c) Tying cloth on the wound and cutting the	
	wound to let the blood come out	Ans : (d) An accident occurs due to the following reasons–
	(d) Rubbing the wound	(i) Unplanned event
	RRB ALP Chennai 06.06.2010 DRDO Mechanic Diesel 2016	(i) Uncontrollable event
Ang	: (c) Tying cloth on the wound and cutting the	(iii) Undesirable event
	d to let the blood come out.	148. Expenses arising out of any the following
	If a patient does not perform mouth-to-mouth	accidents are not-
141.	breathing first aid should be done as follows-	(a) Expenses due to damage to machinery, tools,
	(a) Seek medical help immediately	(a) Expenses due to damage to machinery, tools, materials and property
	(b) Watch for broken bones	(b) Expenses due to loss of time of injured
	(c) Keep the body warm with blankets	persons
	(d) Check the pulse and eye sight	(c) Expenses due to compensation and medical aid
	RRB ALP Chennai 27.10.2002	(d) Expenses due to increase in production
	: (a) If the patient does not perform mouth-to-	RRB ALP Jammu-Kashmir 06.06.2010
	n breathing, then first aid should be to seek eal help immediately.	Ans : (d) The expenditure that is incurred on the
142.	Use for head protection	increase in production is not the expenditure incurred
172.	(a) hard hats (b) helmets	due to any accident. The following are that expenses
	(c) caps (d) (a) and (b) above	due to the accident.
	RRB ALP Gorakhpur 08.10.2006	(i) Expenses due to damage to m.
Ans :	(d) To protect the head, hard hat and helmet that	149. Safe way of working is-
	s the entire head and protects against head injury.	(a) An effective and correct way of doing things
143.	Wear to protect feet-	(b) An old way of doing things
	(a) Hawai chappal (b) Canvas shoe	(c) A way to handle work quickly
	(c) Leather shoe (d) All of the above	(d) A simple way of doing work
	RRB ALP Gorakhpur 11.10.2009	RRB ALP Kolkata 02.11.2008
	Indian Ordnance Factory Fitter 10.09.2017	Indian Ordnance Factory (Itarsi) 08.05.2016
	(c) Leather shoe should be worn while working in	Ans : (a) An effective and correct way of working is a
nrote	vorkshop to protect the feet. Due to which if ets from being pricked by the feet.	safe way of working. Before actually starting a, job, one
144.	To protect the eyes use	must learn the right way of doing it.
144.	(a) Goggles (b) Glasses	150. Good way to avoid accident is-
	(c) Face Shields (d) All of the above	(a) Working the old way
	RRB ALP Gorakhpur 12.10.2003	(b) To act in one's own way
Ans :	(d) Goggles, glasses and face shields should be	(c) To follow the safety rules related to job
	while working in the workshop to protect the eyes.	machine and place of work
145.	For the protection of the body is used.	(d) Use of safety equipment
	(a) Overalls (b) Gloves	RRB ALP Kolkata 06.02.2005
	(c) Apron (d) All of the above	Ans : (c) To follow the safety rules related to machine.
	RRB ALP Gorakhpur 14.04.2002	• It is a good way to avoid accident at place of work.

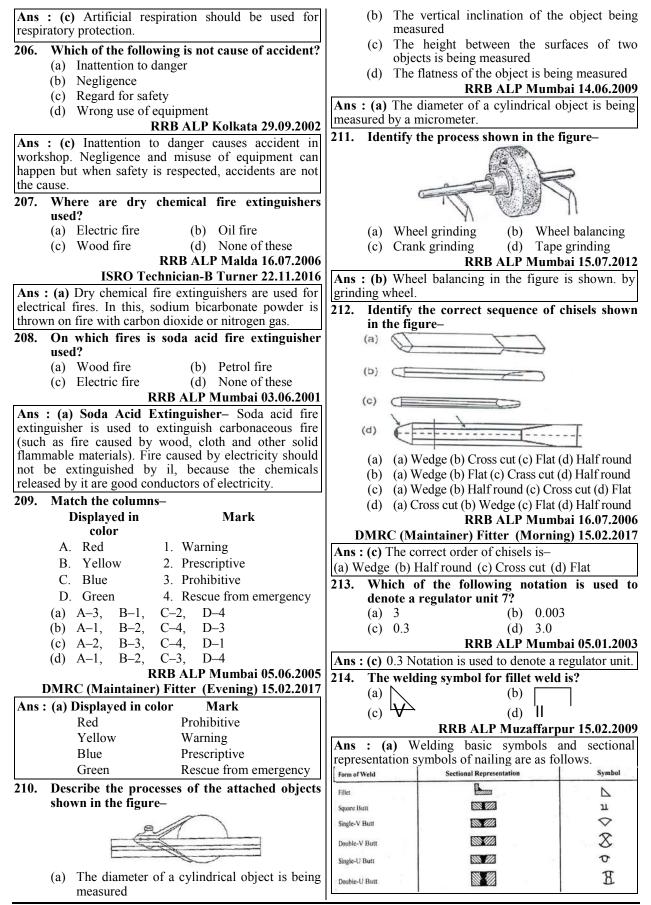
 151. In case of an accident, the victim should be immediately– (a) Asked to rest (b) Should inquire about the accident (c) Should provide help (d) Should be left lying down without treatment RRB ALP Kolkata 16.07.2006 Ans : (c) In the event of an accident, immediate help should be provided to the victim. First of all first aid should be done. After giving first aid, he should be treated in a nearby hospital. 152. Are found in fire (a) Fuel, light and oxygen (b) Fuel, heat and nitrogen (d) Fuel, light and nitrogen (d) Fuel, light and nitrogen 	 156. Emission norms are the levels of pollutants allowed by a vehicle Emissions form petrol engines are measured by– (a) Gas detector (b) Gas analyzer (c) Gas meter (d) Gas igniter RRB ALP Mumbai 03.06.2001 Ans : (b) Emission norms are the levels of pollutants allowed by a vehicle. Emission from petrol engines are measured by a gas analyser. 157. Emission norms are the levels of pollutants allowed by a vehicle. Emission from diesel engines are measured by– (a) Gas detector (b) Gas analyzer (c) Gas meter (d) Igniter RRB ALP Mumbai 05.06.2005
RSMSSB Jr. Inst. Mechanic Diesel 23.12.2019 Indian Ordnance Factory 2015	Ans : (a) Emission norms are the levels of pollutants allowed by a vehicle. Emission from diesel engines are measured by any detector. Gen detect is a device for
Ans : (b) Fuel– Any substance, liquid, solid or gas will burn it given oxygen and high enough temperature.	measured by gas detector. Gas detect is a device for measuring emissions. It acts as a safety system for the part in which it is applied.
Heat- Every full will begin to burn at a certain	158. What is the meaning of 'ULP'?
temperature. Solids and liquid given off vapour when heated and it is this vapour which ignites. Some liquids give off vapour even at normal room temperature say 15°C, ex- petrol.	 (a) Unlined petrol (b) Unloaded petrol (c) Unleaded petrol (d) unlabeled petrol RRB ALP Mumbai 14.06.2009
 Oxygen- Usually it exists in sufficient quantity in the air to keep a fire burning. 153. In case of arc welding, to protect your eyes, you 	Indian Ordnance Factory 2013 Ans : (c) ULP stands for Unleaded petrol. To reduce knocking in petrol engine, lead is mixed in petrol, the petrol in which lead is not mixed is called unlead
should use	159. Chain slings are used for
(a) Dark glass screen (b) Sunglasses	(a) Light load (b) Heavy load
(c) Mask (d) Clean glass RRB ALP Kolkata 2014	(c) Medium load (d) Non of the above
Ans : (a) Dark colored glass screen should be used to	RRB ALP Mumbai 15.07.2012
protect your eyes in case of arc welding.	Ans : (b) Chain slings are used for heavy load and bulky load on a regular or repetitive basis.
154. Should be used while grinding–	160. Towing slings are used for
(a) Dark colored glass screen(b) Mask	(a) Light load (where the chain can damage the
(c) Safety glasses	loads) (b) Heavy load
(d) Sun glasses RRB ALP Kolkata 29.09.2002	(c) Both of the above(d) None of the above
Ans: (c) One must always use safety goggles or face	RRB ALP Mumbai 16.07.2006
shield while working on a grinder. Also, one should never wear loose clothing around this machine, while in	Indian Ordnance Factory 2012 Ans : (a) Towing slings are used for lighter loads where
operation.	the chain can spoil the loads.
155. If the handle is a loose fit with a hammer, then	161. Which of the following cranes is used to lift and
(a) The hammer will fly off and an accident may	transport loads?
occur (b) He will bear the blow	(a) Overhead crane(b) Traveling crane(c) Pillar jib crane(d) Gantry crane
(c) Saving will be easier in it	RRB ALP Mumbai 05.01.2003
(d) He will give more leverage	Ans : (a) Over head crane is used to lift and transport
RRB ALP Malda 16.07.2006 Indian Ordnance Factory 2014	the load one place to another place. Over head crane are installed under the roofs in factories, these cranes move
Ans : (a) If the handle is loosely fitted with a hammer	above the ends.
then the hammer will come out and accident, can	162. Which of the following is a four wheeled
happen. To avoid accident, before using any equipment, it should be started working after checking it	vehicle used for carrying goods?(a) Single-girder crane
thoroughly.	(b) Traveling wall crane

(c) Pillar jib crane	Ans : (c) While working at night, there should be
(d) Industrial fork-lift	proper arrangement of light on the machine so that all
RRB ALP Muzaffarpur 15.02.2009	things are clearly visible.
Ans : (d) A four wheeled vehicle used for carrying	169. Chemicals are used in foam type fire
goods is known as industrial fork lift.	extinguisher-
163. S.W.L. means	(a) $Na_3CO_3 + AlSO_4$ (b) H_2O
	(c) H_2SO_4 (d) $AI_3SO_4I_5$
(a) Safe working load (b) Standard working load	RRB ALP Ranchi 2014
(b) Standard working load	VIZAAG Steel Fitter 2015
(c) Side working load(d) Stable working load	Ans : (a) $Na_3CO_3 + AlSO_4$ chemicals are used in foam
(d) Stable working load RRB ALP Patna 04.02.2007	type fire extinguisher.
	Fire- The chemical reaction of fuel in the presence of
SAIL Bokaro Steel Plant 2016	oxygen is called fire. So three things are necessary for
Ans : (a) S.W.L. = Safe Working Load	fire, fuel, oxygen and heat before going. Fuel (Solid, Liquid, Gas)
164. Due to which of the following set of properties	\wedge
chains are made from wrought iron?	
(a) Tensile, extensibility, hardness	Fire
(b) Hardness, toughness, ductility	
(c) Malleability, ductility, toughness	Oxygen Z Heat
(d) Hardness, touchiness, brittleness	Foam type chemical are used to extinguish fires
RRB ALP Patna 11.11.2001	involving oily substances.
Ans : (c) Malleability– Malleability is the property by	170. The cut chips of the machine should be
virtue of which a material may be hammered or rolled	removed from (b) F
into thin sheets without a rapture. This property	(a) Hand (b) Feet
generally increases with the increase of temperature.	(c) Gloves (d) Brush
165. Fire extinguisher should be used to extinguish	RRB ALP Ranchi 21.09.2003
the fire of oily substance–	Ans : (d) During machining the cut chips should be
(a) C.T.C (b) Foam type	removed from the brush.
(c) Water (d) None of these	171. If these is a fire in the workshop, immediately
RRB ALP Patna 2014	stop it-
Ans : (b) A fire caused by oily substances is called on	(a) Water (b) Fire
oil fire. A foam tryer extinguisher is used to extinguish	(c) Switch (d) None of these
it. This is called class 'B' fire. Others also use CO_2 for	RRB ALP Secunderabad 06.06.2010
this.	NTPC Fitter 2014
166. A moving machine should never be stopped	Ans : (c) If there is a fire in the workshop, the main
by	switch should be switched off immediately, then
(a) Hand (b) Switch	according to the type of fire, proper fire extinguisher should be used so that the fire can be controlled
(c) (a) and (b) (d) None of these	completely.
RRB ALP Ranchi 04.09.2005	
SAIL Durgapur Steel Plant 05/09/2014	172. The ability to avoid electric shock depends on
Ans : (a) A moving machine should never be stopped	the age of the person and its physical condition–
by hand otherwise injury or major accident may occur.	(a) Age (b) Ability
Chips released during machining should not be removed	(a) Age (b) Ability (c) (a) and (b) both (d) None of these
by hand, otherwise the chips may enter the hands.	RRB ALP Secunderabad 11.11.2001
167. Not operating a machine that does not belong	Ans : (b) The ability to avoid electric shock depend on
to it—	the age of the person and his physical ability.
(a) Water (b) Fire	173. Which signal is used for danger from poison?
(c) Air (d) Knowledge	Λ Λ
RRB ALP Ranchi 08.07.2007	
Ans : (d) Some precautions should be taken while	
working on the machine, otherwise injury or any other	(a) (b) (b)
major accident may occur, such as the machine which is	
not known should not be touched.	
168. There should be proper arrangement on the	
machine while working at night-	
(a) Water (b) Oil	(c)
(c) Light (d) Fire	(d) None of these
RRB ALP Ranchi 19.01.2003	RRB ALP Secunderabad 29.06.2008
Mechanic Diesel 2	VCT

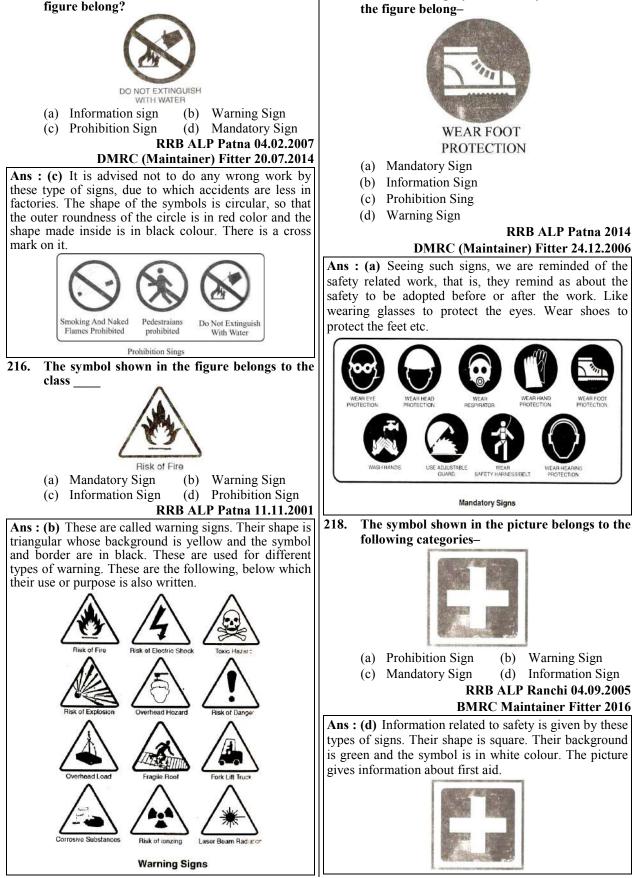
	rning signs are displayed by making	178. Which of the following is not the case of the
black pictures triangular shap	s on a yellow background of a	accident?
Warning	Symbol	(a) Mushroom Head Cheese(b) Wide Mouth Spanner
∧ anning	Poison danger	(c) Worn Vernier Calipers
	Poison danger	(d) Tightening of saw blade
<u>/×\</u>		RRB ALP Ajmer 05.06.2005
\wedge	Danger of electric shock poison	Ans : (c) Worn vernier calipers are not the cause of the
	danger	accident. Mushroom (flat head) chisels, wide open
		spanners, over tightening saw blades etc. can cause accidents.
	General warning risk of danger	179. Which of the following is not contained in a
/!\		handbook?
		(a) Basic information
	Laser beam	(b) Directional description
/ *		(c) Common defect
	First Aid Available	(d) Factory act
		RRB ALP Ajmer 10.10.2004 CRPF Constable Tradesman 2016
174. Who can	properly operate the machines?	Ans : (d) Basic information directional description and
	ed human labor (b) Skilled engineer	common faults are given in factory handbook and
(c) Both	(a) and (b) (d) None of these	factory low is not given.
	RRB ALP Siliguri 2014	180. Match the columns–
	BHEL Hyderabad Fitter 2014	List-I List-II
	r operation of machines can be done by	Type of fire Fuel
	bor and skilled engineers.	A. Class A fire 1. Gas and liquefied gas
	the following is a means of protection	B. Class B fire 2. Wood
(a) Wate	arbonaceous fire? er (b) Sand	C. Class C fire 3. Metals
(c) Soil	(d) All of these	D. Class D fire 4. Flammable liquids
(c) 5011	RRB ALP Trivandrum 20.06.2004	(a) $A-2$, $B-4$, $C-1$, $D-3$
Ans : (d) A fire	which is kindled by wood or charcoal.	(b) A-1, B-2, C-3, D-4 (c) A-3, B-4, C-1, D-2
	oonaceous fire. To extinguish it, water,	(c) $A=3$, $B=4$, $C=1$, $D=2$ (d) $A=3$, $B=4$, $C=2$, $D=1$
	s used. A part from this, soda acid	RRB ALP Ajmer 23.05.2004
extinguisher is class 'A' fire.	also used to extinguish it. This called	Ans : (a) Type of Fire Fuel
-	n be the result of a machine in the	Class A fire Wood
	of complete information?	Class B fire Flammable
(a) Refir		Class C fire Gas and liquefied gas
(c) Don't		Class D fire Metals
	RRB ALP Ahamadabad 2014	181. Range of current that produces a cardiac condition that causes instant death-
Ans : (b) When	never we talk about complete safety, it	(a) 10-20 milli ampere
	wn safety as well as the safety of	(b) 50-100 milli ampere
	the safety of work area. Misuse of a	(c) 100-110 milli ampere
-	bl leads to an accident.	(d) 20-50 milli ampere
	f the following is the process involved	RRB ALP Allahabad 03.08.2008
in basic li	ring the airways	HAL Fitter 2015
	arting the breath	Ans : (a) The threshold of electric current which produces the cardiac condition which causes immediate
	arting the heart	death is 10-20 milli amperes.
(d) All o		182. Which machine is not a dangerous machine as
	RRB ALP Ahamadabad 17.10.2004	per the factories Act 1948, part 23?
	COAL India Fitter 2013	(a) Circular saw
Ans: (d) In co	mmon parlance, life spot is called first	(b) Milling machines used in metallurgical trades
	There are three actions in the basic life denoted by the three latters $A = B = C$	(c) Power presses other than hydraulic press (d) Crinding machines
spot, which are $A \rightarrow Ai$	denoted by the three letters A, B, C.	(d) Grinding machines PBP ALP Allababad 09 12 2007
$ \begin{array}{c} A \rightarrow A \\ B \rightarrow B \\ \end{array} $	-	RRB ALP Allahabad 09.12.2007
	rculation	Ans : (d) Grinding machines is not a dangerous machine as per the factories Act 1948, part 23.
	10010011	Internite us per the factories rice 1740, part 25.

183. Cast iron specified as per Indian standard	
<pre>specifications, 'FG 200' means : (a) 2 Carbon content</pre>	(c) Saturday (d) Friday RRB ALP Bhubneswar 15.07.2012
(b) While cast iron whose B.H.N. No. 200	MES Automobile Tradesman 2015
(c) Gray cast iron having highest compressive	Ans : (b) According to the interpretation of the week
strength 200 N/mm ²	described in the factories Act 1948, it is a period of 7
(d) Gray cast iron having minimum tensile	days which starts from midnight of Monday.
strength of 200 N/mm ²	189. Which of the following is helpful in preventing
RRB ALP Bangalore 25.01.2004	accidents? (a) Automatic safety guard
Ans : (d) Specified cast as per Indian standard specifications. Iron FG 200 refers to gray cast iron with	(b) Interlock safety guard
a minimum tensile strength of 200 N/mm ² .	(c) Trip safety guard
184. Types of extinguishers for class A fire–	(d) All of the above
(a) Water filled extinguisher	RRB ALP Bilaspur 15.07.2012
(b) Foam or dry power or CO_2	Ans : (d) The following measures were taken for safety
(c) Specific powder	in industrial units.
(d) Halon, carbon dioxide, dry powder and	(i) Automatic safety guard
evaporated liquid (CTC)	(ii) Interlocks safety guard (iii) Trip safety guard
RRB ALP Bangalore 08.07.2007 Managan Dagh Shinhwildows Ltd. 2012	190. Which of the following are the causes of
Mazagon Dock Shipbuilders Ltd. 2013 Ans : (a) Extinguishers for class A fires include water	industrial hazards and accidents?
filled extinguishers.	(a) Noise and vibration
185. Which signboard should be used as a safety	(b) Poor light and poor air circulation
standard while doing electrical work?	(c) Heat and humidity
(a) Extremely hot-do not come in contact	(d) All of the above
(b) Extremely dangerous	RRB ALP Chandigarh 14.09.2008 Ans : (d) Industrial hazards and accidents are caused
(c) Strictly prohibited area	by-
(d) Hot-do not touch	(i) Noise and vibration
RRB ALP Bangalore 15.07.2012	(ii) Poor light and poor air circulation
Ans : (b) While doing electrical work use extreme	(iii) Heat and humidity
danger signboard as a safety standard.	191. The Indian boilers Act, 1923 applies to-
186. The heat released is measured with the help of- (a) Energy meter (b) Thermometer	(a) All boilers
(c) Calori meter (d) Anemo meter	(b) Boiler of capacity more than 100 liters
RRB ALP Bhopal 06.06.2010	(c) Boiler of capacity more than 1000 liters(d) All of the above
Ans : (c)	RRB ALP Chandigarh 15.07.2012
Energy meter – Electrical energy measurement	ISRO Technician-B Carpenter 27.11.2016
Thermometer – Temperature measurement	Ans : (b) The Indian boiler Act applies to boilers of
Calorimeter – Heat energy value air	capacity above 100 liters.
Anemometer – Velocity measurement	192. Which of the following device is used to
187. In class A fire, the cause of fire is	encourage security?
(a) Wood (b) Oil	(a) Imposing heavy fines (b) Writing slogans(c) Stop work(d) All of the above
(c) Transformer (d) Chemical	(c) Stop work (d) All of the above RRB ALP Chandigarh 25.05.2003
RRB ALP Bhubneswar 14.06.2009	Ans : (b) Write propagation (slogans) device is used to
Ans : (a) Class-A Fire the cause of fire is wood, the following are-	encourage security.
Class Reason	193. Which of the following is true if an efficient
	process makes a product environmentally safe?
A Class Wood, Paper, Leaves	(a) It is not profitable unless the cost of recycled
B Class Flammable, liquids are oil, petrol, diesel etc.	material is low (b) It will be called light construction
C Class Propane, methane etc.	(b) It will be called light construction(c) Still it can be profitable
	(d) It is easier in a repetitive process than in a
D Class Magnesium, Titanius metal flame and electrical fire	product focused process
188. As defined in the factories act, 1948 a week is a	RRB ALP Chennai 06.06.2010
period of 7 days commencing from the	Ans : (c) If a product is made environmentally safe
midnight of-	through an efficient process, it can be profitable.
Mechanic Diesel 2	27 YCT
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194. In which of the following classes is fire placed? (a) Two (b) One	Ans : (c) Dry chemical extinguisher is used on electric fire. Usually plunger type. In this, sodium bicarbonate
(c) Four (d) Three	powder is extracted by carbon dioxide (CO_2) or
RRB ALP Chennai 27.10.2002	nitrogen gas. This fire comes under 'D' category.200. Foam extinguisher is used to extinguish the fire
Ans : (c) There are four qualities of fire which are A, B,	of
C and D. 'A' class fire includes carbonaceous 'B' class oily 'C' class gaseous and 'D' class electrical fire.	(a) Class 'B' (b) Class 'D'
195. Class 'B' consists of fire from	(c) Class 'A' (d) Class 'C'
(a) Gas (b) Electricity	RRB ALP Guwahati 22.01.2006
(c) Liquid (d) Wood or paper etc	Ans : (a) Foam Extinguisher– This type of extinguisher is used to extinguish oil fire. This fire comes in class
RRB ALP Gorakhpur 08.10.2006	B'. It contains soda bi carbonate solution n the outer C
ISRO Technician-B Fitter 20.11.2016	connector and aluminum sulphate in the inner
Ans : (c) Oily substances (fires) come in class 'B' which are as follows; gasoline, kerosene, point thinner and	connector. There is a solution of on its body, a brown
propane etc. To extinguish class 'B' fires, extinguish	colored hand of about 100 mm size is made.201. Soda Acid Extinguisher is used to extinguish
flammable liquids by removing oxygen from the fire,	type of fire-
thus preventing dangerous parts from reaching the	$\overline{(a)}$ Class 'D' (b) Class 'C'
ignition point. 196. Class 'D' consists of fire from	(c) Class 'B' (d) Class 'A'
196. Class 'D' consists of fire from(a) Electricity(b) Wood and paper	RRB ALP Jammu-Kashmir 06.06.2010
(c) Gas (d) Liquids	ISRO Technician-B Motor Mechanic 27.11.2016
RRB ALP Gorakhpur 11.10.2009	Ans : (d) Soda Acid Extinguisher – It is used to extinguish carbonaceous fire. In this comes class 'A'
Ans : (a) Class 'D' is an electrical fire such as come under	fire.
appliances, switches, electrical boxes or power tools etc.	202. What should be done in case of fire int he
To extinguish this fire C.T.C. uses fire extinguisher.197. Electrical fire can be extinguished by-	workshop?
(a) Water	(a) Watch quietly(b) Try to get out immediately
(b) Dry powder extinguisher	(c) Switch off the electric main immediately
(c) Soda acid extinguisher	(d) Inform the fire brigade immediately
(d) C.T.C. fire extinguisher	RRB ALP Kolkata 02.11.2008
RRB ALP Gorakhpur 12.10.2003	Ans : (c) In case of fire in the workshop, the mains
Ans : (d) C.T.C. fire extinguisher– Carbon tetrachloride and Bromochloro die floro methane are	draw should be stopped immediately. After that the fire brigade should be informed about the experiment
filed in this fire. It is used to extinguish electrical fires.	immediately after coming out.
Because its chemicals are electrical bad conductors.	203. If there is darkness at the place of work due to
This gas is also harmful.	power failure, then should be done-
198. A gas fire can be extinguished by–	(a) Do not create panic(b) Arrange alternative lighting
(a) Dry powder fire extinguisher(b) C.T.C. fire extinguish	(c) Use stairs to escape
(c) Water	(d) All of the above
(d) All three of the above	RRB ALP Kolkata 06.02.2005
RRB ALP Gorakhpur 14.04.2002	Ans : (d) If there is a power failure at the work place
ISRO Technician-B Grinder 27.11.2016	and it becomes dark, then there should be no panic, alternative lighting should be arranged and then one
Ans : (a) If fits with dry powder. These are also store	should go out.
pressure type or gas cartridge type. It is similar to water filled, the only difference is the nozzle. Their use is 'C'	204. While using hammer, keep an eye on
class fire means to extinguish the fire caused by gases.	(a) On chisel head (b) On hammer
(ALL)	(c) On job (d) None of the above
A STATE	RRB ALP Kolkata 16.07.2006
A and	ISRO Technician-B Plumber 27.11.2016
	Ans : (c) Keep an eye on the job while using the hammer. Only then you can do the right thing on eye on
	the chisel head will result in cutting elsewhere on the
$\mathbf{\mathcal{G}}$	job which will spoil the job. Hammers are usually made
Dry Powder Extinguishers	from high carbon steel.
199. CO_2 is used to extinguish type of fire-	205. For respiratory protection use
(a) Class 'A' (b) Class 'C'	(a) Exhaust Fan(b) Ceiling Fan(c) Artificial respirators (d) None of these
(c) Class 'D' (d) Class 'B' PPB ALP Correctment 21 10 2001	(c) Artificial respirators (d) None of these RRB ALP Kolkata 2014
RRB ALP Gorakhpur 21.10.2001	KKD ALI KVIKATA 2014



215. In which category does the symbol shown in the figure belong? 217. In which category does the symbol shown in the figure belong–



Mechanic Diesel

02. HANDS A	ND POWER TOOLS
 What type of chisel is used to square up materials at a corner? (a) Diamond pointed chisel (b) Flat chisel (c) Cross cut chisel (d) Half round nose chisel RRB ALP Mechanic Diesel 23/01/2019 Shift-II 	 (a) tighten bolts and nuts (b) tighten wires (c) tighten brakes (d) adjust bolts and nuts RRB ALP Mechanic Diesel 23/01/2019 Shift-I
 LMRC (Maintainer) Fitter 16.03.2016 Ans. (a) : Diamond pointed chisel is used for levelling materials at corner. Flat chisel is used to remove materials from large flat surfaces and for removing extra metals from a weld joint and slope through chipping. Cross cut chisel is used for cutting keyways and slots. Half round nose chisel is used for cutting curved slots. Identify the instrument of given figure : 	 Ans. (a) : A torque wrench is a tool used to apply a specific torque to a fastener such as a nut, bolt and brakes. It is used where the tightness of screws and bolts is crucial. So A torque wrench is used to tighten bolts and nut. 6. Which of the following devices is used to give the specified torque value for bolt and nuts? (a) Box spanner (b) Ring spanner (c) Torque wrench (d) Pipe wrench RRB ALP Mechanic Diesel 21/01/2019 Shift-I
 (a) Ratchet spanner (b) Scale (c) Screw driver (d) Torque wrench RRB ALP Mechanic Diesel 23/01/2019 Shift-II Ans. (a) : Ratchet spanner is used to tighten and loosen nuts and bolts. It is preferred where space for full rotation is limited because it is not needed to be removed from the nut and realigned in between turns. 3. Which type of file is used for internal curved surfaces? (a) Round file (b) Semi round file (c) Triangular file (d) Square file RRB ALP Mechanic Diesel 23/01/2019 Shift-II Ans. (b) : Half round file is used for filing internal 	 Ans. (c) : A torque wrench is used to give the specified torque value for bolt and nuts. It is usually in the form of a socket wrench with special internal mechanisms. It is used where the tightness of screws and bolds is crucial. 7. What steel is a file made from? (a) High chromium steel (b) Forged steel (c) High carbon steel (d) Mild steel Cochin Shipyard T.A. Mechanic Diesel 12.1.2020 DRDO Fitter 2016 Ans. (c) : Steel files are made from high carbon steel. Filing is the process of removing small amount of material from the surface of any of job or machine
 curved surfaces. Its bottom part is flat & upper part is semicircular. It is used for enlarging internal curved surfaces and holes. Round file is used for enlarging circular holes. 4. Which part of the ball-peen hammer is used for shaping and forming work? (a) Peen (b) Face (c) Cheek (d) Wedge RRB ALP Mechanic Diesel 23/01/2019 Shift-I Noida Metro Maintainer Fitter 2017 	 using a file. 8. This V-block is used for giving support to long shaft at Marking table. (a) Single level Single Groove V-Block (b) Single level Double Groove V-Block (c) Paired V-Block (d) Magnetic V-Block RSMSSB Jr. Inst. Mechanic Diesel 23.12.2019 Ans. (c) : Pair-V-Block Paired-V-block exists in a pair of same size. These are identified by a number or letter assigned by manufacturer.
Ans. (a) : Ball-peen hammer is a type of peening hammer used in metalworking. It has two heads. One flat and other peen rounded peen head is used for shaping and forming work. Eye hole Check Face Ball-Peen Hammer	 This type of 'V' block is used to support a long shaft on a marking table. 9. Combination pliers are not used for (a) Cutting (b) Twisting (c) Hammering (d) Grapping RSMSSB Jr. Inst. Mechanic Diesel 23.12.2019 Ans. (c) : Combination pliers are not used for hammering. It is used for cutting, twisting and grapping.

10. Circlip plier is also known as	(a) Torque wrench
(a) snap ring plier (b) retaining ring plier	(b) Piston ring compressor
(c) (a) and (b) (d) None of these	(c) Piston ring expander (d) Circlin playar
RSMSSB Jr. Inst. Mechanic Diesel 23.12.2019 DRDO Turner 2011	(d) Circlip player NCVT NIMI Mechanic Diesel 2021
Ans. (c) : Circlip plier is also known as snap ring plier	DRDO Motor Mechanic 2016
and retaining ring plier.	Ans. (c) : Given tool is piston ring expander.
• Circlip pliers is used in assembly work for fitting or	• It is used to enable fast installation or removal of
removing circlips.	piston rings.
• This pliers is mainly of two types	16. What are tools are used to remove the drills
(i) Internal circlip pliers	and sockets from the machine spindle?
(ii) External circlip pliers.	(a) Screw diver and hammer(b) Punch and hammer
11. Which plier is used to hold the component in a small or narrow place?	(c) Drift and hammer
(a) Combination plier (b) Side Cutting plier	(d) Drift and hammer
(c) Long Nose plier (d) Multigrip plier	NCVT Mechanic Diesel 01.11.2019 Shift-II
RSMSSB Jr. Inst. Mechanic Diesel 23.12.2019	Ans. (d) : Drift and hammer are used to remove the
Ans. (c) : Long nose pliers is used for holding the wire	drills and sockets from the machine spindle.
in narrow places which are difficult to reach.	17. What is the name of the plier?
• It is used for bending and cutting thin wires.	
12. The manually operated jack is called a	H(1)
(a) Hydraulic jack (b) Screw jack	HOY.
(c) Pneumatic jack (d) None of the above MP ITI T.O. Mechanic Diesel 08.11.2016	
Ans. (b) : Manually operated jack is called screw jack.	79.1A)
• It is commonly used to lift moderately and heavy	
weights.	
13. Name the tool used to take out leftovers of a	(a) Side cutting plier (b) Nose plier
gasket between two assembled parts .	(c) Circlip plier (d) end cutting
(a) Scraper (b) Chisel	NCVT Mechanic Diesel 01.11.2019 Shift-II
(c) Knife (d) Hacksaw MP ITI T.O. Mechanic Diesel 08.11.2016	Ans. (a) : Side cutting plier – This plier is use for cutting fine wires and for pulling the wire from narrow
DRDO Machinist 2016	places.
Ans. (a) : Scraper is used on a job after machining for	18. What is the use of lump hammer ?
scraping off any leftover hard spots.	
• These tools are made of tool steel or alloy steel and	
their cutting edge is hardened and tempered.	0
Types of scraper – (i) Flat scraper	
(ii) Triangular scraper	
(iii) Hook scraper	(a) Strike the metal (b) Punch the metal
(iv) Half round scraper	(c) Spread the metal (d) Light demolition work
(v) Double handle scraper.	NCVT Mechanic Diesel 01.11.2019 Shift-II
14. What is the name of the tool?	DRDO Mechanic Diesel 2016
	Ans. (d) :
(a) Dial type torque wrench	• Lump hammer is used for light demolition work.
(b) Scale type torque wrench	• It is commonly used in domestic work.
(c) Ratchet type torque wrench	This is also called a club hammer.
(d) Torsion type torque wrench	19. The tool which is used to remove gear. bearing, wheels and pulleys from their attaching
NCVT NIMI Mechanic Diesel 2021	components is ?
Ans. (b) : Name of the tool in given figure is scale type	(a) Screw driver (b) Monkey plier
torque wrench.	(c) Pullers (d) Hammer
15. What is the name of the tool?	NCVT NIMI Mechanic Diesel 2019
	Ans. (c) : The tool which is used to remove gear,
	bearing, wheels and pulleys from their attaching components is pullers.
	 This is made of mild steel.

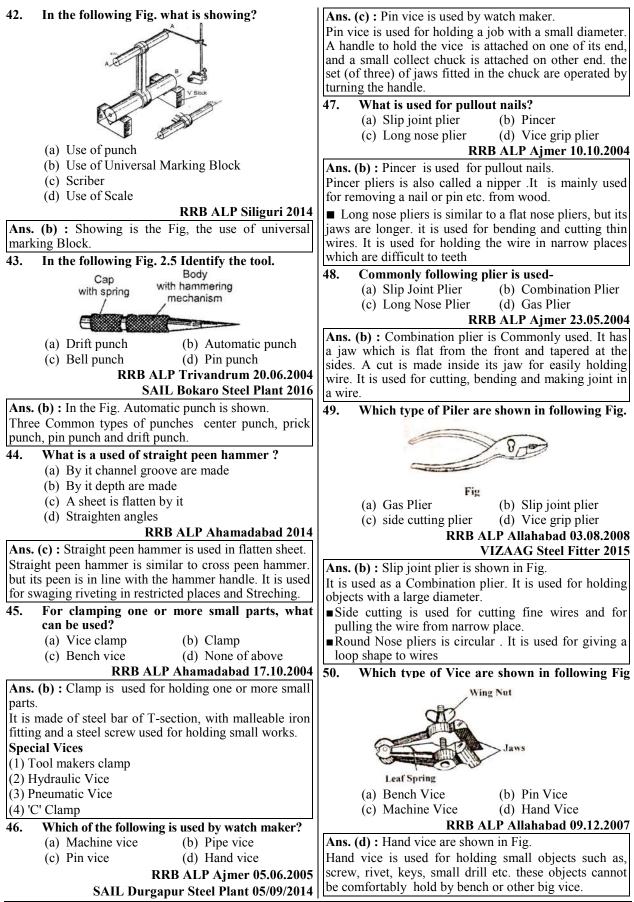
20. The first priority when working with a hand	27. File raised from middle is called?
tool is?	(a) Breadth (b) Convexity
(a) Don t make any mistakes	(c) Taper (d) All of these
(b) Watch the other people around	HPSSC Mechanic Diesel (Instructor) 2018
(c) Always thinking about safety	Ans. (b) : File raised from middle is called convexity.
(d) None of these	• This elevated part is called the convexity of file.
NCVT NIMI Mechanic Diesel 2019	28. End of spanner set make an angle of with
Ans. (a) : The first priority when working with a hand	axis.
tool is don't makes any mistake.	(a) 20° (b) 15°
• Inspect all power and other hand tools thoroughly before each use.	(c) 30° (d) 6°
	HPSSC Mechanic Diesel (Instructor) 2018
21. Which instrument can be used to check radial clearance?	Indian Ordnance Factory (Itarsi) 08.05.2016
(a) Dial indicator (b) Deviation gauge	Ans. (b) : End of spanner set make an angle of 15° with
(c) Feeler gauge (d) Wire gauge	axis.
NCVT NIMI Mechanic Diesel 2019	• Spanner is used for opening and tightening any type
RSMSSB Jr. Inst. Mechanic Diesel 23.12.2019	of nut and bolt.
Ans. (c) : Feller gauge used to check radial clearance.	• A spanner set has 6, 9, 12 or 36 spanners.
22. A rough file is used :	• It is made of high tensile steel or alloy steel.
(a) on non irregular jobs	29. Leg vice body is made of ?
(b) to reduce the metal rapidly	(a) Mild Steel (b) Cast Iron
(c) on wood	(c) Wrought Iron (d) High Carbon Steel
(d) if smooth file is not suitable	HPSSC Mechanic Diesel (Instructor) 2018
KPSC Inst. Mechanic Diesel 17.01.2017	Ans. (c) : Leg vice body is made of wrought iron.
Indian Ordnance Factory Fitter 10.09.2017	• Vice is a work holding device.
Ans. (b) : A rough file is used to reduce the metal rapidly.	• Size of the vice is selected according to the width of
 It is mostly used for trimming the rough edges of 	its jaw.
soft metal costing.	30. Number of notches in ring spanner may be ?
23. Bench vice is normally made of :	(a) 10 (b) 14
(a) Cast iron (b) Cast steel	(c) 8 (d) 12
(c) Mild steel (d) High speed steel	HPSSC Mechanic Diesel (Instructor) 2018
KPSC Inst. Mechanic Diesel 17.01.2017	Ans. (d) : Number of notches is ring spanner may be 12.
Ans. (a) : Bench vice is normally made of cost iron.	• Spanner is made of high tensile steel or alloy steel.
• It is also known as engineer vice.	31. Which punch is used for making witness
24. The process of making leak proof joint after	marks?
riveting is called :	(a) 60 degree punch (b) 30 degree punch
(a) Brazing (b) Soldering	(c) Center punch (d) 90 degree punch
(c) Folding (d) Caulking and Fullering	HPSSC Mechanic Diesel (Instructor) 2018
KPSC Jr. Inst. Mechanic Diesel 26.09.2018	Indian Ordnance Factory 2015
Ans. (d) : The process of making leak proof joint after	Ans. (a) : 60 degree punch is used for making witness marks.
riveting is called caulking and fullering.	• Punches is made up of high carbon steel, hardened
25. When a nut is tightened by placing a washer	and ground.
below it, the bolt will be subjected to?	32. Scriber are made of .
(a) Tensile stress (b) Compressive stress (c) Sheer stress (d) Norre of sheers	(a) Cast Iron (b) Mild Steel
(c) Shear stress (d) None of these	(c) High Carbon Steel (d) Stainless Steel
ISRO Tech-B Mechanic Diesel 27.11.2016	HPSSC Mechanic Diesel (Instructor) 2018
Indian Ordnance Factory 2016	Ans. (c) : Scriber are made of high carbon steel.
Ans. (a) : When a nut is tightened by placing a washer below it the bolt will be subjected to tensile stress.	• In layout work it is necessary to determine the
	dimensions before filing or turning of the job.
26. The edges made by bending is called?	33. Name the type of jig in which a base plate is not
(a) Slit (b) Notch (c) Hem (d) None of these	available.
HPSSC Mechanic Diesel (Instructor) 2018	(a) plate jig (b) box jig
Ans. (c) : The edge made by bending is called hem	(c) trunnion jig (d) latch jig
(hemming).	HPSSC Mechanic Diesel (Instructor) 2018
 This is method of bending and crushing the edge of 	Ans. (a) : Base plate is not available in plate jig.
a work, mainly for securing product strength and for	• The plate jig is employed to drill holes on large
safety measures.	parts, maintaining accurate spacing with each other.
Sufety Incasules.	r

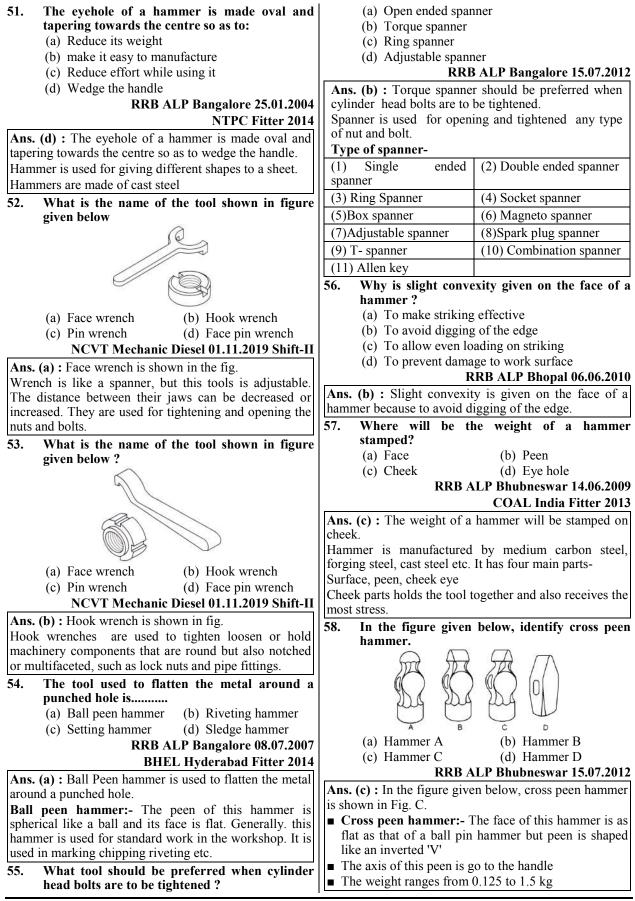
34. The face plate is made of. 39. Which type of tool is shown in following Fig. (a) Carbon Steel (b) Tool Steel 2.1 (c) Wrought Iron (d) Cast Iron **HPSSC Mechanic Diesel (Instructor) 2018 Indian Ordnance Factory 2014** Ans. (d): The face plate is made of cast iron. It has rectangular and 'T' shaped slots on its face to hold the job. The work piece to be machined is clamped in the appropriate position on the face of the face plate Fig 2.1 with the help of bolts. (a) Angle plate Adjustable angle plate (b) Marking of job is done by keep it on surface 35. (c) Scriber (d) Surface plate plate, that time we take reference surface: **RRB ALP Secunderabad 06.06.2010** (a) Top surface of a job Ans. (b): Adjustable angle plate is shown in Fig. (b) Marking surface plate (c) Axis of job In adjustable angle plate is used for change the angle (d) Drawing of a job between the two plate as per our requirements. RRB ALP Ranchi 08.07.2007 Which type of tool is shown in following Fig. 40. Ans. (b) : Marking of job is done by keep it on surface 2.2 it on surface plate, that time we take reference surface from surface plate. The surface plate is machined to fine limits and is used for testing the flatness of work piece. surface plate is made of cost iron. Slots are made in angle plate. Purpose of 36. making it : (a) By lifting by hook Fig 2.2 (b) For lighten a weight of a plate (a) Surface plate (c) Centring a job (b) Adjustable angle plate (d) For giving space to clamping bolts (c) Scriber RRB ALP Ranchi 19.01.2003 (d) Fixed angle plate Ans. (d) : Purpose of slots for giving space to clamping **RRB ALP Secunderabad 11.11.2001** bolts in angle plate. Angle plate is cost iron plate having **Indian Ordnance Factory 2012** two races machined to make them absolutely at right angles to each other. Holes and slots are provided on Ans. (d) : Fixed angle plate is shown in Fig. both faces so that it may be clamped on a faceplate and Angle plates have two plane surfaces, machined hold work price on the other face by bolt and clamps perfectly flat and right angles. Generally it is made of Two pins fixed in Universal Marking Block 37. grained cast iron or steel. called. These angle plates are invaluable for accurate work in (b) Adjusting pin (a) Guide pin tool room, right angle machining & grinding. (d) Snug pin (c) Fine Adjusting pin In the following fig. 2.3 'V' Block is shown. In 41. **RRB ALP Ranchi 2014** which the angle of 'V' slot is 90° and the other **Indian Ordnance Factory 2013** angle of 'V' slot is Ans. (a): Two pins fixed in Universal marking block is called as guide pin. Guide pins are cylindrical rod used in assembly to align components. The mechanical fastener may help ensure stability limit contact damage. and maintain precise positioning For making devider pointed which method is 38. used? (a) Grinding (b) Oil stone (c) Filing (d) Chieseling Fig 2.3 RRB ALP Ranchi 21.09.2003 (a) 180° (b) 20° Ans. (b) : Oil stone method is used for marking divider (d) 120° (c) 127° pointed. **RRB ALP Secunderabad 29.06.2008** a stone with a fine grain lubricated with oil and used for Ans. (d) : In the Fig. 2.3 'V' Block is shown. In which sharpening cutting tool. the angle of 'V' slot is 90° and the other angle of 'V' slot Oil stones are made from one of three materials

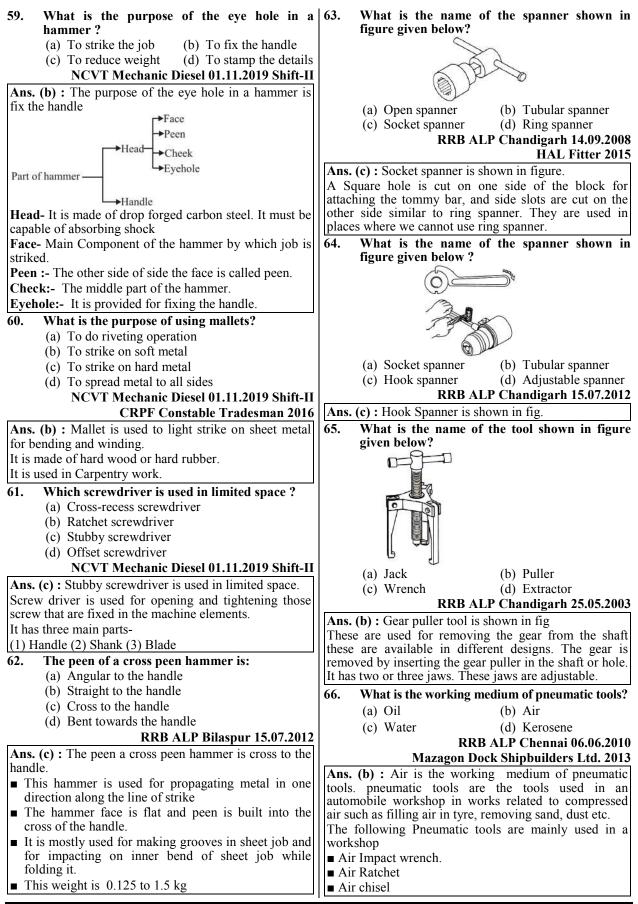
Mechanic Diesel

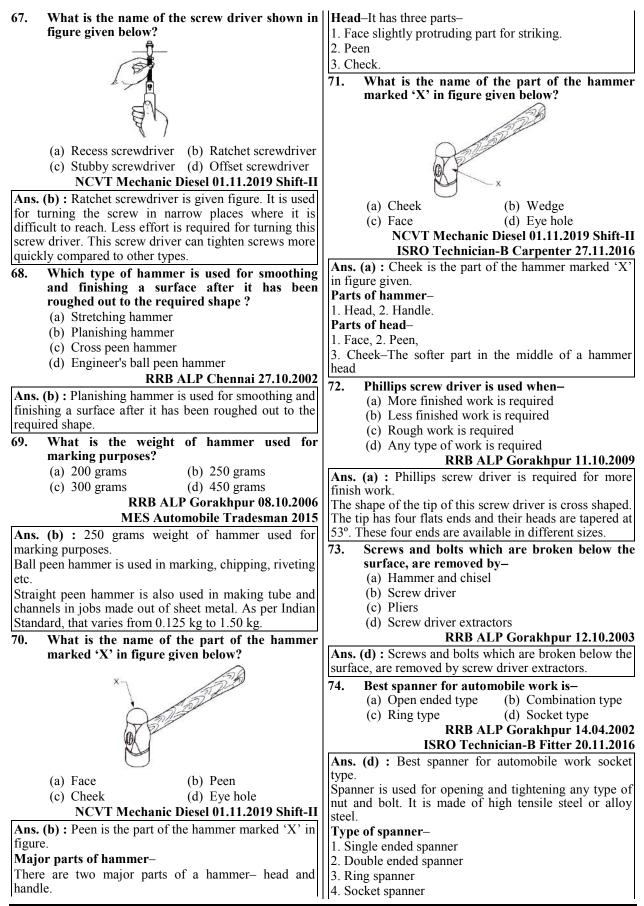
Novaculite, Aluminum oxide, Silicon Carbide

is 120⁰.

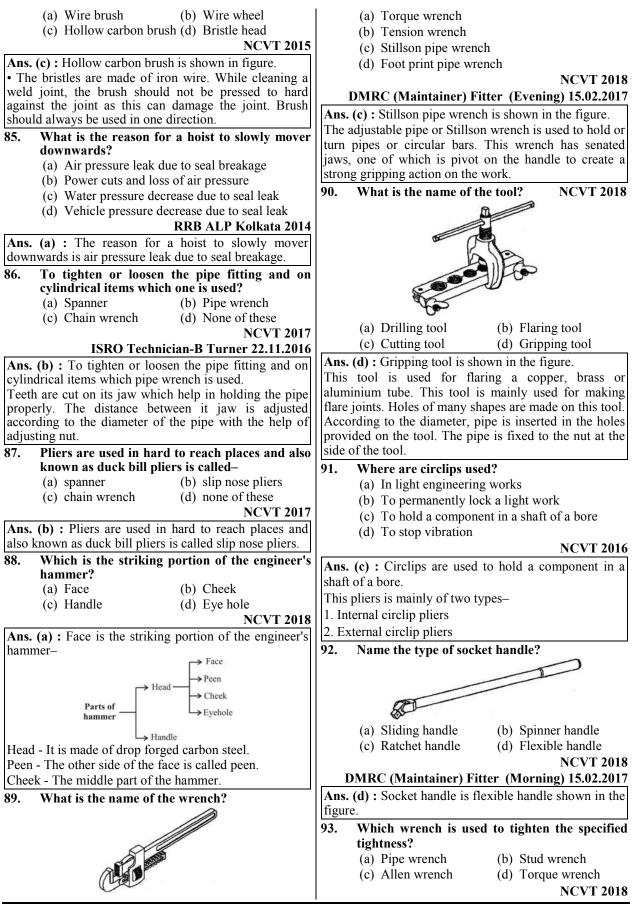


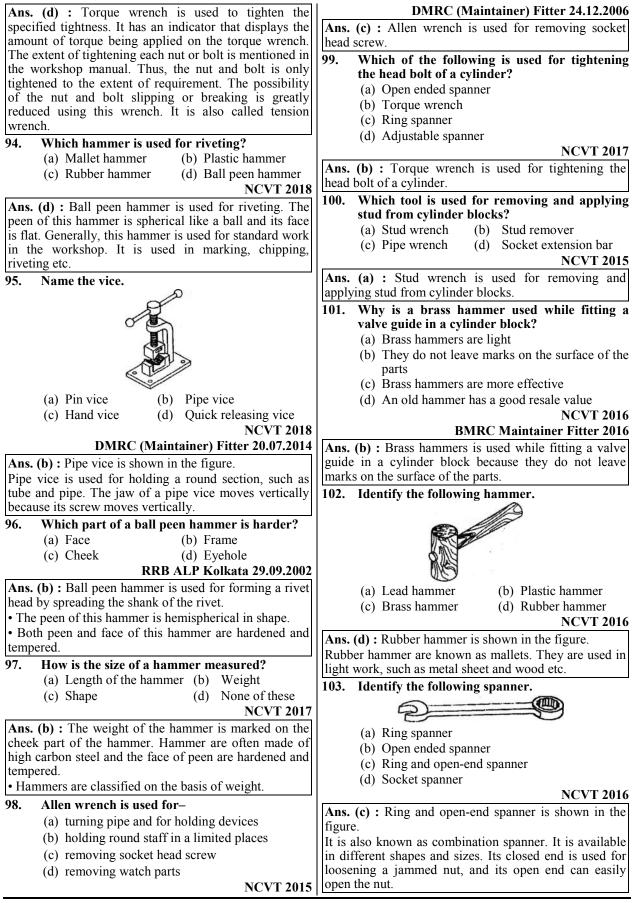






5. Box spanner	80. Which of the following notch is used when a job is made with a band of 90^{0} ?			
6. Magneto spanner7. Adjustable spanner	(a) square notch (b) V notch			
8. Spark plug spanner	(c) Wired notch (d) Slot notch			
9. T- spanner	(c) wheth noten (d) slot noten NCVT 2016			
10. Combination spanner	ISRO Technician-B Motor Mechanic 27.11.2016			
11. Allen key.	Ans. (b) : V notch is used when a job is made with a			
75. For tightening the cylinder head bolts, we	band of 90° .			
should prefer to use–	• It is made by cutting both side at 45° from bending			
(a) Open ended spanner (b) Torque wrench	line.			
(c) Ring spanner (d) Adjustable spanner	• Notch is following types- square notch, straight			
RRB ALP Gorakhpur 21.10.2001	notch, V-notch etc.			
Ans. (b) : For tightening the cylinder head bolts, we	81. The measure of an angle plate is given by			
should prefer to use torque wrench.	(a) length			
A torque wrench is a tool used to control and apply a	(b) size number(c) length × width × thickness			
specific torque to a fastener such as a bolt or a nut. It is	(d) diameter			
a fundamental element in general mechanics, fire changing operation.	NCVT 2016			
	Ans. (c) : The measure of an angle plate is given by			
76. Two way pliers is necessary to operate a-	length \times width \times thickness.			
(a) Castle nut (b) Wring nut (c) Locking nut (d) Circlip	• Angle plates are suitable for supporting work piece			
RRB ALP Guwahati 22.01.2006	during layout work.			
Ans. (d) : Two way pliers is necessary to operate a	They are comparatively small in size.			
circlip.	• Slots are provided to clamp the workpiece.			
Circlip plier is used in assembly work for sitting or	• Arms of solid angle plate are made at an angle of 90°.			
removing circlips. This pliers is mainly of two types–	• Swivel base angle plate can be set at any angle easily.			
1. Internal circlip pliers	82. Which notch is used while making a			
2. External circlip pliers.	rectangular box?			
77. Which of the following stakes provides a	(a) 'C' notch (b) Square notch (c) Slant notch (d) Wire notch			
double ended support?	RRB ALP Kolkata 16.07.2006			
(a) Hatchet stake (b) Halfmoon stake	Ans. (b) : Square notch is used while making a			
(c) Creasing stake (d) Horse stake	rectangular box.			
RRB ALP Jammu-Kashmir 06.06.2010	• Slant notch is cut at an angle of 45° to the corner of			
ISRO Technician-B Grinder 27.11.2016	the sheet. It is used when a single hem meets at a			
Ans. (d) : Horse stakes provides a double ended support.	right angle.			
In this stake, both ends are long one end is bent in one	• In 'V' notch both the sides are cut at a 45° angle to the			
direction and at both the edges square holes are made.	edge of the sheet.			
78. A mallet is made of	83. A surface plate is made of			
(a) lead (b) brass	(a) marble (b) red stone (c) granite (d) quartz			
(c) hard wood (d) cast iron	(c) granite (d) quartz NCVT 2015			
RRB ALP Kolkata 02.11.2008	ISRO Technician-B Plumber 27.11.2016			
Ans. (c) : A mallet is made of hard wood. It is used where light forces are required. It is a wooden-headed	Ans. (c) : A surface plate is made of granite.			
hammer of the round or rectangular cross-section.	• Surface plate is used to test the flatness of other			
79. A bent snip is used for-	surface or to provide a truly flat datum surface in			
(a) removing burr	marking off.			
(b) making holes on the sheet	• Surface plate is available in many sizes, but generally $50 \times 50 \times 2^2$ and $100 \times 100 \times 2^2$ surface plate sizes.			
(c) bending the sheet	$50 \times 50 \text{ cm}^2$ and $100 \times 100 \text{ cm}^2$ surface plate sizes are used.			
(d) cutting the sheet along curved lines	 It is available in the thickness of 2.5 cm to 7.5 cm. 			
RRB ALP Kolkata 06.02.2005	84. Identify the cleaning tool.			
Ans. (c) : A bent snip is used for bending the sheet. The				
cutting blade of a bent snip is made in a semi-circular				
shape. This type of snip is used for cutting curves in the				
sheet.				
• These are used for cutting the sheet in cylindrical or				
conical shape.				





104. Identify the socket spanner.	struck by a hammer to from an impression of the tip on
RUUR	a workpiece.
	PunchAngleCenter punch90°
	Center punch90°Dot punch60°
	Prick punch 30°
	109. During marking the reference surface is
(a) 12 point deep socket spanner	provided by which of the following?
(b) 6 point deep socket spanner	(a) Job drawing
(c) 12 point deep socket spanner(d) 6 point deep socket spanner	(b) Workpiece
(d) 6 point deep socket spanner NCVT 2016	(c) Surface of marking table
LMRC (Maintainer) Fitter 16.03.2016	(d) Surface gauge
Ans. (a) : 12 point deep socket spanner is shown in the	RRB ALP Mumbai 15.07.2012
figure.	Ans : (c) • A marking table (marking of table) is used
They are used for opening nuts and bolts in those places	as a reference surface for marking on work-piece.
where it is impossible to reach.	• Marking tables are of rigid construction with
105. Which tool is used for laying out large circles?	accurately finished top surface. The edges are also
(a) Trammel (b) Divider	finished at right angle to the top surface.
(c) Jenny caliper (d) Scriber RRB ALP Malda 16.07.2006	110. Which of the following is the divider used for-
Ans : (a) Trammel – Trammel is a type of tool in which	(a) Draw of circles
the points of the trammel are attached to a bar according	(b) Draw of arcs
to the length of the job. Trammel is used to draw circles	(c) Transferring and stepping of distances
and circles section of large radius. Circles and circle	(d) All of the above
section of larger radius cannot be drawn with the help	RRB ALP Mumbai 16.07.2006
of dividers.	DRDO Fitter 2016
106. 'V' block is used to hold round bars, there is a	Ans : (d) Divider is an instrument, it is used for
'V' groove on it whose angle is– (a) 30° (b) 60°	marking circle sector and other geometrical structures.
(a) 30° (b) 60° (c) 90° (d) 120°	Dividers are used the following-
RRB ALP Mumbai 03.06.2001	 Measuring distance between two points. Direct transfer of measurement from steel rule.
Ans : (c) V–Block– • V–Block are precision metal	111. What is the name of the scriber marked '2'
working jigs typically used to hold round metal rods or pipes for performing drilling or milling operations.	shown in the picture?
• The consist of rectangular steel or cast iron block with	1. 🔘 👔
a 90° channel rotated 45° from the sides, forming a V-	
shaped channel in the top.	2. /
107. The angle of scriber's point is–	3.
(a) 30° (b) 60°	(a) Straight scriber
(c) 5° to 10° (d) 12° to 15°	(b) Bent scriber
RRB ALP Mumbai 05.06.2005 Noida Metro Maintainer Fitter 2017	(c) Adjustable sleeve scriber
Ans : (d) Scriber – Scriber is a pointed tool made of	(d) Child head scriber
hard steel. It is used for drawing lines while marking on	RRB ALP Mumbai 05.01.2003
metal job, the conical point of the scriber is usually 12	Ans : (c)
to 15°.	Bent オscriber
108. The angle of the point of the center punch is-	scriber
(a) 30° (b) 60°	
(c) 90° (d) 120°	Straight
RRB ALP Mumbai 14.06.2009	scriber
Ans : (c) • After drawing marking line on a job by	Adjustable
scriber different kind of punches are used to make these	sleeve scriber
markings permanent.	1
• A punch is a hard metal rod with a shaped tip at one end and a blunt butt end at the outer, which is usually	
Machania Diasel	

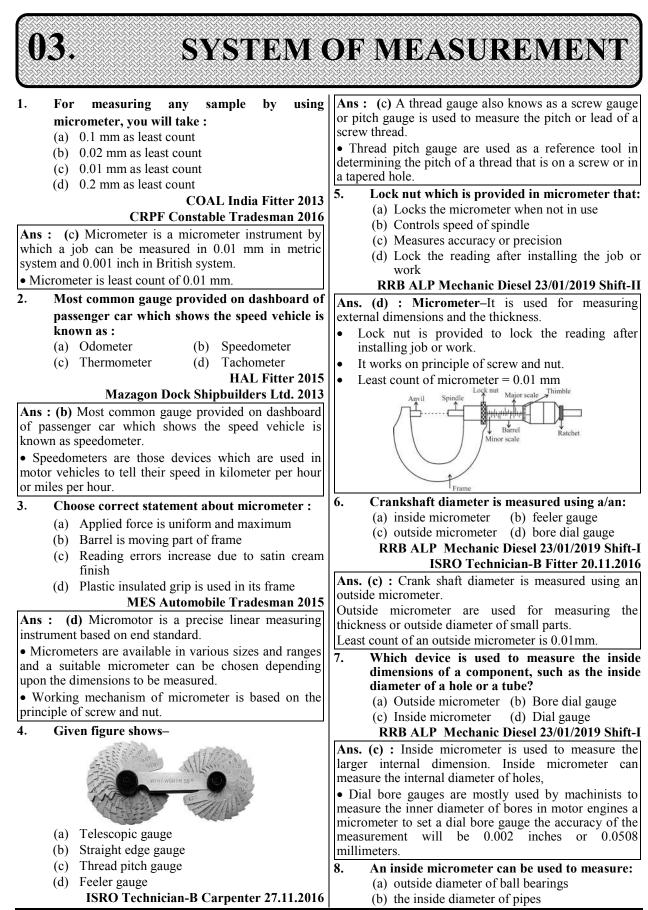
112. Which head of the combination set is used by	Ans : (a) Ball pin hammer is used to make the shape of
setting it at a certain angle?	the head by expanding the shank of the rivet.
Protractor head	The weight of the ball pin hammer ranges from 55 grams to 1400 grams. The ball pin hammer consists of
$m \gg 2$	a case, pin eye hole and a handle is attached.
	117. Which of the following tools is best for quickly
No and a state of the state of	loosing and tightening nuts and bolts?
	(a) Air impact wrench (b) Air ratchet
	(c) Ring spanner (d) Socket spanner
Square head	RRB ALP Ranchi 08.07.2007
(a) Square head (b) Protractor head	Ans : (b) Air ratchets are suitable for tightening or
(c) Center head (d) Rule RRB ALP Muzaffarpur 15.02.2009	loosening small nut and bolts, even in tight spaces. The
Ans : (b) The protractor head can be used for	main application of impact wrenches is to tighter or loosen the lug nuts of cars.
measuring and checking angle between surfaces, edges	118. Which of the following is used when a fastener
and markings. Markings angles from an edge. Directly	has to provide a precise amount of torque?
transferring angles like a bevel gauge (sliding T gauge)	(a) Air ratchet (b) Ring spanner
to minimize measurement errors and inaccuracies.	(c) Torque ratchet (d) Monkey ratchet
• The combination set is used by setting the protractor head in a certain angle.	RRB ALP Ranchi 19.01.2003
113. Generally the length of the handle of a vice is–	Ans : (c) Torque ratchet is a socket ratchet drive it is
(a) 1.5 times the nominal size of the vice	used to give the correct amount of torque to the
(b) 2.5 times the nominal size of the vice	fastener. The torque ratchet is used where the tightness of small machinery such as screws and bolts is very
(c) 3.5 times the nominal size of the vice	important.
(d) 4.5 times the nominal size of the vice	119. It is a simple air tool used to remove dust and
RRB ALP Patna 04.02.2007	debris from tight places. What's this called?
DRDO Turner 2011	(a) Air spray gun (b) Air dispensing gun
Ans : (a) The length of the handle of a vice is 1.5 times	(c) Air chisel gun (d) Air blow gun
the nominal size of the vice. Available in a variety of sizes to hold tasks of various size on shapes the squeal	RRB ALP Ranchi 2014
base is used to s et the vice in any position.	DRDO Motor Mechanic 2016
114. A bench vice for normal work, how much does	Ans : (d) Air blow gun is the simplest air tool to air
is the height fitted?	duster. The air blow gun is operated by means of a lever. It is used for blowing dust and dirt from narrow
(a) 80 cm (b) 90 cm	place by means of air blow gun.
(c) 106 cm (d) 125 cm	120. For car wash, there should be normal water
RRB ALP Patna 11.11.2001	pressure-
Ans : (c) A bench vice is a mechanical apparatus used to secure an object that is to be worked on it features	(a) 50–60 bar (b) 70–80 bar
two parallel jaw as part of the design.	(c) 100–110 bar (d) 120–140 bar
• The device is widely used in the mechanical and wood	RRB ALP Ranchi 21.09.2003
working industries among others.	Ans : (c) Normal pressure of water for car wash should
• For general purpose, a bench vice is fixed at a height	be 100 bar to 110 bar.
of 106 cm from floor.	121. Which file will you use to prepare the final size of the work piece?
115. Vice clamps are used for to-	(a) Bustard file (b) Double cut file
(a) prevent the finished surfaces of the job	(c) Single file (d) Dead smooth file
(b) hold the job firmly	RRB ALP Secunderabad 06.06.2010
(c) prevent the grove cut by the vice(d) prevent damage to the file	Ans. (d) : The process of removing material in the from
(d) prevent damage to the me RRB ALP Patna 2014	of powder from the surface of a workpiece by rubbing a
Ans : (a) Vice clamps are used to hold a finished work	tool with a rough surface is called filling on the tool
using soft jaws (vice clamps) made of aluminium over	used is called file. Dead smooth file -28 to 35 teeth per cm in this file it
the regular jaws this will protect the work surface from	happens A this file is used to smoothen the surface after
damage.	rough filling it used for fine finishing.
116. Which of the following type of hammer is used	122. Air chisel is used to separate metal objects by
to shape the head of a rivet by	breaking or cutting them it is run–
(a) Ball pin hammer (b) Cross pin hammer	(a) Pneumatic (b) Hydraulically
(c) Straight pin hammer (d) Soft hammer	(c) Magnetic attraction (d) Friction
RRB ALP Ranchi 04.09.2005	RRB ALP Secunderabad 11.11.2001
DRDO Machinist 2016	DRDO Mechanic Diesel 2016

 (c) removal of excess metal (d) None of these RRB ALP Ahamadabad 2014 	(c) Dead smooth file (d) Single cut file RRB ALP Allahabad 09.12.2007 Indian Ordnance Factory (Itarsi) 08.05.2016			
(c) removal of excess metal				
	(c) Dead smooth file (d) Single cut file			
(b) circular cutting	(a) Bastard file (b) Rough file			
(a) making circular holes in the job	finished size?			
126. What is the main function of drilling tools?	131. Which file would you use to get it closer to			
etc. $\rightarrow 0.8$ mm pitch blade.	as shown in the figure.			
• For conduit and another thin tubing sheet metal work	components can be further machined by counter boring			
for cutting thin section tubes is 0.8 mm.	Counter boring –Already existing holes in the			
Ans. (b) : The most suitable pitch of the hacksaw blade	with the surface.			
Indian Ordnance Factory Fitter 10.09.2017	enough to accommodate the screw head to fully flush			
RRB ALP Trivandrum 20.06.2004	• Again the depth of counter sinking should be large			
(c) 1.8 mm (d) 1.4 mm	accommodate the counter sunk machine screw head.			
(a) 1.0 mm (b) 0.8 mm	additional machining done on a hole is conical to			
pitch is-	• It is also similar to counter boring except that the			
125. Hacksaw blade for cutting thin tube suitable	Ans. (c) : Counter sinking–			
which are inclined in one direction.	RRB ALP Allahabad 03.08.2008			
the hacksaw frame its teeth are cut in both or one side	(c) Counter shiking (u) Spot hering			
the wings nut lugs. The hacksaw blade is in the shape of a leaf with both ends cutting circular and is fitted into				
• The hacksaw blade frequently loosens due to wear of the wings put lugs. The backsaw blade is in the shape of				
hole Teeth	130. The process of beveling the end of a hole is			
Pin	standard length of 250 mm and 300 mm.			
{-@	steel or high speed steel (HSS) and is available in			
	Ans. (b) : A hacksaw blade made of either low alloy			
i i← Nominal length →				
Ans. (c) :	RRB ALP Ajmer 23.05.2004			
0	(c) 40 mm (d) 35 mm			
(d) Due to non-use of coolant RRB ALP Siliguri 2014				
(c) Wearing of wing nut rings(d) Due to non-use of coolant	129. The length of the hacksaw blade is-			
(b) Due to improper selection of blade pitch	materials. But the surface obtained by this not smooth.			
(a) Due to drag of the blade(b) Due to improper selection of blade nitch	• Due to having sharp teeth, this file cuts faster and more			
124. Hacksaw blade becomes loose frequently–	is inclined from 75° to 80° to the center line.			
etc. $\rightarrow 0.8$ mm pitch blade	another cut diamond shaped teeth are cut this second cut			
• For conduit and another thin tubing, sheet metal work etc. $\rightarrow 0.8$ mm nitch blade	By cutting these long teeth in the other direction with			
1 mm pitch blade • For conduit and another thin tubing sheet metal work	the teeth of the first cut are at 60° from the center line.			
• For angle iron, brass tubing, copper, iron pipe etc. \rightarrow	Ans. (d) : Double Cut File-In these files, the lines of			
1.4 mm pitch blade	Indian Ordnance Factory 2016			
• For tool steel, high carbon, high speed steel etc. \rightarrow 1.4 mm nitch blade	RRB ALP Ajmer 05.06.2005			
iron heavy angles etc. $\rightarrow 1.8$ mm pitch blade	(c) Curve file (d) Double cut file			
• For self materials such as bronze, bar, soft steel, cast	(a) Bustard file (b) Rasp file			
hardness of the material to be cut.	128. The following files cut hard metal faster-			
• The selection of the blade depends on the shape and	special alloy steel and tungsten carbide tiped tools.			
the pitch of the blade.	• Scrapers are made up of high grad tool steel or			
• The distance between the adjacent teeth is known as	curved surfaces.			
type and maximum length of the blade that can be fixed.	• Scrapers are used to correct slight errors on all flat o			
cut metals of different section and is specified by the	Ans. (c) : Scrapers–			
Ans. (c) : Hacksaw frame is used along with a blade to	RRB ALP Ahamadabad 17.10.2004			
RRB ALP Secunderabad 29.06.2008				
(c) 1.4 mm (d) 0.8 mm	(a) High carbon steel (b) Tool steel			
(a) 1.0 mm (b) 1.8 mm	metals?			
brass rod is-	127. Scrapers are made from which of the following			
123. The proper pitch of the blade for cutting solid	generally made of high speed steel.			
magnetic attraction. Air chisel works like a jack hammer.	in the work pieces, the process of making a circular hole by a drilling tool is called drilling. Drilling tool			

Ans. (a) : Bastard file-Normally, a standard mill	Ans. (b) : Mill file is used for draw filing.		
bastard file is used for draw filing. But where a	Draw filing-		
considerable amount of stock has to be removed a flat or hand file will work faster. However, this roughing	• This method is used to remove file marks and for		
down leaves small ridges that will have to be smoothed	finishing operations.		
by finishing with a single cut mill file.	• Here, the file is griped as close to the work as		
132. On reaming a hole, its size was made but	possible between two hands.		
patches remained on its surface at many places.	• In this method a fine cut file with flat face should be		
What could be the reason?	used.		
(a) The metal is cut at a higher speed	137. The flat part of the sand, in which the cutting		
(b) Reamer was wrongly selected	teeth are made what is it called?		
(c) Reaming allowance was less	(a) Point (b) Wheel		
(d) Less amount of coolant was used	(c) Face (d) None of these		
RRB ALP Bangalore 25.01.2004	RRB ALP Bhubneswar 15.07.2012		
Ans. (c) : On reaming a hole, its size was made but	Indian Ordnance Factory 2014		
patches remained on its surface at many places because the reaming allowance is less.	Ans. (d) : Main part of file-		
133. The tap is broken in the hole while tapping the	(i) Face-The flat part of the file in which the cutting		
following are the methods to get it out, which	teeth are made.		
one is not among these by-	(ii) Tang-To fit the file in the handle, its end is made		
(a) tap extractor (b) nose pliers	sharp, which is called tang. (iii) Heel–The plane part without teeth between face		
(c) pouring nitric acid (d) screwdriver	and tang is called heel.		
RRB ALP Bangalore 08.07.2007	(iv) Point–The lower end of the file is called point.		
Ans. (d) : Even after taking precautions, the taps often	(v) Edge-The sides of the file are called edge.		
break in the hole, the following methods are used to	138. Smooth special finish by filing an aluminium		
remove it.	block which drilling file do you use will do-		
1. By nose pliers	(a) Single cut (b) Double cut		
 By punch and hammer Through tap extractor 	(c) Rasp cut (d) Circular cut		
4. Through nitric acid can be extracted by other methods.	(c) Rasp cut (d) Cheunar cut RRB ALP Bilaspur 15.07.2012		
134. Most likely to be chattering in filing in which			
method does it happen?			
(a) Straight filing (b) Cross filing			
(c) Draw filing (d) Curve filing	60"		
RRB ALP Bangalore 15.07.2012	सिंगल कट रेती		
Indian Ordnance Factory 2015	Single Cut File–		
Ans. (a) : Straight filing-When filling is done by	• A single cut file has rows of teeth cut in one direction across its face.		
moving the parallel to the axis of the vice it is called			
straight filing in this method maximum metal is cut but chances of chattering are high. In this method filing is	• The teeth are at an angle of 60° to the centre line.		
done from one end to the other.	• It can cut chips as wide as the cut of the file.		
135. The file is classified on the basis of cut below.	• Files with this cut are useful for filing soft metals like		
Which is not a classification based on cut select	brass, aluminium, bronze and copper.		
it?	139. Which of the following is the main part of the file?		
(a) Single cut (b) Second cut	(a) Tang (b) Point		
(c) Wraps cut (d) Circular cut	(c) Both (a) and (b) (d) None of these		
RRB ALP Bhopal 06.06.2010	RRB ALP Chandigarh 14.09.2008		
Ans. (b) : On the basis of cutting of teeth is of the following types	Ans. (c) : Main part of file-		
following types– (1) Single Cut file	1. Face –The flat part of the file in which the cutting		
e	teeth are made.		
(2) Double Cut file	2. Tang –To fit the file in the handle, its end is made		
(3) Rasp Cut file	sharp which is called tang.		
(4) Circular cut file	3. Point–The lower end of the file is called point.		
(5) Spiral Cut file	4. Edge –The side of the file are called edge.		
136. Which file is used for draw filing is?	140. With the help of which of the following it is		
(a) Pillar file (b) Mill file	possible to remove the waste material in the		
(c) Wording file (d) Hand file	form of fine particles from the plane or curved		
RRB ALP Bhubneswar 14.06.2009	surface?		

(a) Tang (b) Hacksaw	Ans. (b) : Good finishing on reaming in a hole is due to
(c) Chisel (d) File	improper reaming allowance. The process of sizing and
RRB ALP Chandigarh 15.07.2012	finishing on already made hole is called reaming. The
Indian Ordnance Factory 2013	tool used in this process is called reamer. It is a finishing tool it is generally made of high carbon steel,
Ans. (d) : A file is a tool used to remove fine amounts	high speed steel etc.
material from a work piece. It is common in wood	145. In the drilling process, chips are continuously
working, metal working and other similar trade and	being removed from the same flute of the drill.
hobby tasks.	This could be due to-
141. The following machines are used for drilling at	(a) point angle being too high
places where electricity is not available–	(b) clearance angle being unequal
(a) Pillar drilling machine	(c) excessive lip angle
(b) Bench drilling machine	(d) cutting angle not suitable
(c) Ratchet head drilling machine	RRB ALP Gorakhpur 11.10.2009
(d) Hand drilling machine	Ans. (c) : Chips are continuously removed from the
RRB ALP Chandigarh 25.05.2003	same flute the drill in the drilling process, this is due to
Ans. (c) : Ratchet head drilling machine)–This	maximum lip angle.
machine is operated by hand by the operator its design	Lip clearance angle-
is very simple. The speed of this machine is slow but it	• The clearance angle is to prevent the friction of tool
is useful for special works, it is used for drilling at such	being the cutting edge.
places. Where there is no power equipment.	• This will help in the penetration of the cutting edges into the material.
142. In a job in making a groove across with a	• The optimum value of the lip clearance angle of twist
chisel, the metal at the end of the grooves gets	drill for general purpose should be 8 to 12°.
chipped of what would you do to prevent this?	146. Which machine reamer would you used to
(a) Use less force in the end	correct outside mis-alignment between the axis
(b) Finally chipping in the opposite direction	of the reamer and the axis of the hole in the
(c) Chipping using oil	work piece?
(d) Chipping by reducing the inclination of the	(a) Floating blade reamer (b) Machine jig reamer
chisel	(c) Structural reamer (d) Chucking reamer
RRB ALP Chennai 06.06.2010	RRB ALP Gorakhpur 12.10.2003
Ans. (b) : In a job in making a groove across with a	SAIL Bokaro Steel Plant 2016
chisel, the metal at the end of the grooves gets chipped	Ans. (a) : A floating blade reamer machine is used to correct the misalignment between the axis of the reamer
to prevent this finally chipping in the opposite direction.	and the axis of the hole in the work piece.
143. Oil grooves are cut in the bearing of the brass	147. A hacksaw frame on which two or more
from the following which chisel would you	standard length blades can be fitted is called-
choose?	(a) Fixed frame
(a) Web chisel	(b) Tube frame
(b) Cross cut chisel	(c) Adjustable hacksaw frame
(c) Flat chisel	(d) None of these
(d) Half round nose chisel	RRB ALP Gorakhpur 14.04.2002
RRB ALP Chennai 27.10.2002	Ans. (c) : Adjustable hacksaw frame is made in two
Indian Ordnance Factory 2012	pieces grooves are made on the side of the adjustable
Ans. (d) : Half round nose chisel has a rounded edge. It	screw. The length of this frame can be adjusted. 200 to 300 mm in this frame blades of up to length can be used.
is used for making oil grooves in a bearing cutting	148. A special wedge (a) shaped tool for removing
corner furries in this the forging angle is 30° and the	the taper shank drill from the spindle of a drill
cutting angle is from 35° to us in job in which the drill	machine is used for call him-
moves away from the center which drilling the metal	(a) Handle (b) Key
left by it is also recovered.	(c) Socket (d) Drift
144. Poor finishing when reaming a hole cames this	RRB ALP Gorakhpur 21.10.2001
could be due to-	Ans. (d) : A special wedge (a) shaped tool is used to
(a) Maximum cutting speed	remove the taper shank drill from the spindle of the drill
(b) Reaming allowance not being appropriate	machine which is called drift. There are two types of
(c) No supply of cool out	drills depending on the shape of the shank.
(d) Choosing the wrong type of reamer	1. Taper shank drill
RRB ALP Gorakhpur 08.10.2006	2. Parallel shank drill

149. The lip clearance angle of the drill is low	Ans. (d) : The teeth of single cut file are made in		
headed generally-	straight line on the face. These lines are parallel to each		
(a) 12° to 15°	other and the center of the face is at 60°. They are used		
(b) 8^0 to 12^0	for sharpening tools and for grinding hard metals.		
(c) 6^0 to 8^0	154 The third (finisher) tap is used for tapping in		
(d) 4^0 to 6^0	blind holes because of the following reason-		
RRB ALP Guwahati 22.01.2006	(a) To insert thread in the hole till the bottom		
SAIL Durgapur Steel Plant 05/09/2014	(b) To easily cut thread in the hole		
Ans. (b) :	(c) To make thread form good		
• The clearance angle is to prevent the friction of the	(d) To start cutting the thread		
tool behind the cutting edge.	RRB ALP Kolkata 2014		
• This will help in the penetration of the cutting edges			
into the material.	Ans. (a) : Third (finisher) tap for tapping in blind hole the reason for using is insert the thread in the hole till		
• The optimum value of the lip clearance angle of twist	the bottom. Finishing tap is also called plug tap or		
drill for general purpose should be 8 to 12.	bottoming tap. Only one or two thread infront of it are		
150. The width of round bar M 16×2.0 is to be cut	in taper. Its use is needed only in closed holes after		
by a die. Suitable size of round bar should be–	running the second tap.		
(a) 15.5 mm			
(b) 15.8 mm	155 A nut is to be made for a bolt of size M 10×1.5 . In nuts, the size of the hole to be made will		
(c) 15.9 mm	be as follows-		
(d) 16.0 mm			
RRB ALP Jammu-Kashmir 06.06.2010			
Ans. (b) : The width of round bar M 16×2.0 is to be cut by a die. Suitable size of round bar should be 15.8.	RRB ALP Kolkata 29.09.2002		
Here 'm' stands for metric thread 16 mm and 2 mm is	NTPC Fitter 2014		
the pitch of the thread.	Ans. (b) : A nut is to be made for a bolt of size M 10 \times		
151 What is the cutting angle of the drill?	1.5. The size of the hole to be made in the nut will be		
(a) 124° (b) 121°	8.5 mm.		
(a) 124 (b) 121 (c) 118^0 (d) 59^0	156 It is not preferred to use pure water as a		
RRB ALP Kolkata 02.11.2008	coolant while drilling because–		
Ans. (c) : Generally, the cutting angle of the drill is kept	(a) The cutting edge of the drill gets worn out		
at 118° i.e. 59° on one side and 59° on the other side for	(b) Increase the risk of rusting on the job		
normal work, but for some special work this angle can	(c) Insufficient cooling by water		
be more or less. The cutting angle of the drill is kept	(d) More steam is produced		
less than 118° for soft iron or for soft metal and more	RRB ALP Malda 16.07.2006		
than 118° for hard metal.	Ans. (b) : Water (H ₂ O) is not used as a coolant while		
152 Warding file is the following types–	drilling because the oxygen present in water will react		
(a) Like a hand file but less is width	with metals to form metal oxides. Due to the metal will		
(b) Like a flat file but less is width	corrode. So, plain water is not used as a coolant.		
(c) Like a flat file but thinner in thickness	157 In order to provide good finishing, the teeth		
(d) Like a flat file but in width and thickness less	and spacing in reamer are designed according		
RRB ALP Kolkata 06.02.2005	to the following statement-		
VIZAAG Steel Fitter 2015			
Ans. (c) : Warding file is also similar to flat file but its	(b) Even number of teeth and spacing		
thickness is slightly less and is same throughout the	(c) Odd number of teeth and even number of		
length. This file is 10-20 cm long. They are very fine	spacing		
teeth on its blade. Using this file for finishing or other	(d) Even number of teeth and odd number of		
light work. It is also used for making keys, cleaning the			
core of the slot etc.	spacing		
152 What apple $c \rightarrow 4b + 4 - 4b + 4 - 4b = 6$	spacing RRB ALP Mumbai 03.06.2001		
153 What angle are the teeth cut on the face of a single out file?	RRB ALP Mumbai 03.06.2001		
single cut file?	RRB ALP Mumbai 03.06.2001 BHEL Hyderabad Fitter 2014		
single cut file? (a) 90^0 (b) 75^0	RRB ALP Mumbai 03.06.2001 BHEL Hyderabad Fitter 2014 Ans. (d) : The reamer is designed with even number of		
single cut file?	RRB ALP Mumbai 03.06.2001 BHEL Hyderabad Fitter 2014		



 (c) the outside diameter of pipes (d) the diameter of head surfaces RRB ALP Mechanic Diesel 23/01/2019 Shift-I Ans. (b) : Inside micrometers are used to measure inside dimensions like the inside diameter of a hole or pipes. 9. Checking of twists & bend of connecting rods can be done by which one of the below mentioned equipment? (a) Dial test indicator 	 13. Which of the following measuring instruments is used to measure the distance travelled by the vehicle? (a) Speedometer (b) Odometer (c) Tachometer (d) Rotameter RRB ALP Mechanic Diesel 21/01/2019 Shift-I Ans. (b) : Odometer is used to measure the distance travelled by the vehicle (wheels). 		
(b) Surface plate(c) Connecting rod alignment jig	Measuring instrument	Uses	
(d) Straight edge	Speedometer	It measures the current speed of a	
RRB ALP Mechanic Diesel 23/01/2019 Shift-I		vehicle in km/hr.	
ISRO Technician-B Grinder 27.11.2016 Ans. (a) : Checking of twists and bend of connecting	Tachometer	It measures the speed of engine in rpm (crank shaft).	
rods can be done by Dial test indicator.	Rotameter	It measures the discharge of the	
10. An outside micrometer is used to:		flowing fluid in vertical pipe.	
(a) measure outside diameter(b) measure inside diameter		r depth gauge is used to measure the :	
(c) measure length	. /	nal diameter (b) internal diameter n of a blind hole (d) pitch diameter	
(d) measure depth	· / -	LP Mechanic Diesel 21/01/2019 Shift-I	
RRB ALP Mechanic Diesel 23/01/2019 Shift-I			
Ans. (a) : Outside micrometers are used for measuring	-	hole, height of the job.	
the thickness or outside diameter of small parts.An inside micrometer is used to measure the		unt is 0.02 mm.	
diameter of holes.	• Vernier caliper is used to measure the external diameter width and don'th of the		
• Least count of micrometer is 0.01mm.	diameter, internal diameter, width and depth of the job.		
11. The brake horse power of an engine is measured by which equipment?			
(a) Dynamometer	(a) Thickness		
(b) Ammeter(c) Multimeter		l gaps & clearances	
(d) Voltmeter	(c) Dian (d) Widt		
RRB ALP Mechanic Diesel 23/01/2019 Shift-III		LP Mechanic Diesel 21/01/2019 Shift-I	
Ans. (a) : The broke horse power of an engine is		SRO Technician-B Plumber 27.11.2016	
measured by dynamometer. IHP (Indicated horse power)– Power developed inside	Ans. (b) : A fe	eler gauge is used to measure small gaps	
internal combustion engine, no losses accounted.		(i.e. spark plug gap etc.) between two	
BHP (Brake horse power)- Usable power of the	mating parts.	set of thin strips, made up of stainless	
engine crankshaft. IHP = BHP + FHP	steel or spring		
$FHP \rightarrow Friction horse power.$	 Thickness, diameter, width etc. dimensions of the jab are measured by the used of vernier caliper. 		
12. Which one of the following instruments is also		the material of filler gauge?	
called as a milometer? (a) Odometer		n speed steel (b) High carbon steel	
(b) Speedometer	(c) Mild steel (d) Stainless steel		
(c) Tachometer		RRB ALP Mumbai 05.06.2005	
(d) Rotameter		r gauge made of stainless steel material,	
RRB ALP Mechanic Diesel 21/01/2019 Shift-I ISRO Technician-B Motor Mechanic 27.11.2016	which also tempered. It is used to measured gap between two meeting surface.		
Ans. (a) : Mileometer records the number of miles that	17. Instrume		
a bycle or motor vehicle has travelled.		ture in furnace-	
• Odometer is also called as a mileometer.	(a) The	rmometer (b) Barometer	
Speedometer – Measures the vehicle speed in km/hr.	(c) Calorimeter (d) Pyrometer		
Tachometer – Measures the engine speed in r.p.m.	RRB ALP Mumbai 14.06.2009		
(crank shaft).		ISRO Technician-B Turner 22.11.2016	
Machanic Diasal	0	VCT	