

General Aptitude

S. No.	Question	Choice 1	Choice 2	Choice 3	Choice 4
1	Which of the following is a synonym for the word "abundant"?	Scarcity	Limited	Rare	Plentiful
2	Fill in the blank according to the passage: They already _____ a lot of food on platter, when waiter asked for more pasta.	had	take	have	bought
3	Fill in the blank according to the passage: How _____ you pay the rent with no job?	should	had	will	are
4	Find the appropriate meaning of the highlighted phrase: "I have decided to see the project through come what may ."	To give up on the project	To continue with the project regardless of difficulties	To delegate the project to someone else	To postpone the project
5	Find the appropriate meaning of the highlighted phrase: "After a long day of hiking, Sarah was on cloud nine as she watched the sunset from the mountaintop."	Feeling tired and exhausted	Feeling indifferent and uninterested	Feeling disappointed and upset	Feeling euphoric and extremely happy
6	Convert the sentence into indirect speech. Martin asked her teacher, "When is the assignment due?"	Martin asked her teacher when would the assignment be due.	Martin asks her teacher when the assignment is due.	Martin asked her teacher when the assignment would be due.	When is the assignment due? Is asked by Martin.
7	Arrange the sentences given below in a meaningful sequence. 1. where vibrant colours blended with the cacophony of diverse cultures, 2. painted against the canvas of time. 3. Amidst the bustling city streets, 4. each moment, a snapshot of human experience	1<2<4<3	3<2<1<4	1<4<3<2	3<1<4<2
8	N is the husband of E. W is the mother of N. How is W related to E?	Daughter in law	Daughter	Mother	Mother in law
9	Find the next term of the series: 11, 47, 89, 137, 191, ...	261	251	241	271
10	Prabhash is standing 20 m north of Sumit, who is standing 15 m west of Rahul. Pappu is standing 20 m south of Rahul, who is 15 m east of Somesh. In which direction and how far is Prabhash from Somesh?	South, 35 m	South, 40 m	North, 35 m	North, 40 m
11	Arrange the following words in a meaningful sequence 1. Frog, 2. Grass, 3. Grasshopper, 4. Egel, 5. Snake	2, 3, 1, 5, 4	3, 2, 1, 4, 5	2, 1, 3, 4, 5	4, 5, 1, 3, 2
12	The day before yesterday was Saturday. What will be the day after to	Thursday	Friday	Wednesday	Monday
13	Which leadership skill involves the ability to inspire and motivate team members towards a shared vision or goal?	Technical expertise	Delegation	Communication	Coaching and mentoring
14	You are assigned a new team in order to build positive relationships and enhance team effectiveness. Which key skill will you require?	Emotional intelligence	Time management	Decision-making	Conflict resolution
15	A team leader consistently addresses disagreements and misunderstandings in a constructive manner. What leadership skill is exemplified in the scenario?	Strategic thinking	Problem solving	Adaptability	Active communication
16	A critical task has been assigned to your team that requires strong coordination, quick decision-making, and efficient problem-solving. What leadership skill should you primarily focus on to ensure the success of the project?	Technical expertise	Delegation	Communication	Conflict resolution
17	Which of the following is an example of a spreadsheet software?	MS Excel	Powerpoint	MS Word	Paint
18	Watson needs to collaborate with her team members who are working remotely on the same project. Which technology will allow real-time collaboration and document sharing?	Web search engine	Augmented Reality (AR)	Cloud computing	Artificial Intelligence (AI)
19	In a presentation of a power point, special effects used to introduce slides is,	Animation	Transition	Anotation	None of the above
20	The error value correspondig to the Excell expression =(0/0) is;	NULL	Zero	Infinity	None of the above

Safety

S.No.	Question	Image	Option 1	Option 2	Option 3	Option 4										
1	Which of the following statements is true about the Job Safety Analysis (JSA)?		JSA focuses on Work area, Men, Machine and Tools	JSA focuses on Men, Machine, Material and Tools	JSA focuses on Work Area, Material, machine and Tools	JSA focuses on Men, Work area, Material and Tools										
2	Which of the options mentioned best describes the concept of organizing to ensure safety, health, and efficient work practices?		Executing new technologies to increase work efficiency	Organizing and Directing safety initiatives for their man power	Maintaining competitive work Environment	Evolving new marketing schemes for health results										
3	Match the following question with correct answers on safety, education and training.		a-2, b-1, c-3	a-2, b-3, c-1	a-1, b-2, c-3	a-2, b-3, c-1										
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4	How does ensuring a safe workplace impact employee morale and productivity?		Safe workplace has no impact on employee morale	It decreases employee job satisfaction	Creating a safe workplace leads to a reduction in employee stress and an increase in morale	It decreases the employee productivity										
5	In the ABC model in Behaviour based Safety ABC Stands for:		Antecedent, Behaviour, Consequence	Acceptance, Behaviour, Control	Ancestor, Behaviour, Consequence	Antecedent, Behaviour, Concern										
6	What purpose does data processing serve within an MIS?		Collection of data from various sources	To store processed data in databases	To organize, sort, and transform data into meaningful information	To generate reports and dashboards										
7	Match the following question with the right side name of the theories and their explanations.		a-3, b-1, c-4, d-2	a-2, b-1, c-4, d-3	a-3, b-4, c-1, d-2	a-2, b-4, c-1, d-3										
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8	Which kind of emergency in industrial settings can arise due to flammable gases, or chemical reactions, dust, potentially causing abrupt releases of energy and resulting in damage?		Fire emergencies	Explosions	emical leakage and spill	Radiological Incidents										
9	Risk is defined as;		Probability X Hazard	Accident X Probability	obability X Consequenc	Consequences X Hazard										
10	Which of the following is/are physical hazard agent(s)		Falls	Electricity	Noise	All of these										
11	ABC in the First		Airway, Bandage and Call medical emergency	Airways, Breathing and Circulation	Ambulance, Bandage and Circulation	Airway, Breathing and Call medical emergency										
12	What is the main objective of safety guarding in machine operation?		Unintentional machine shutdown	Provide physical barrier	More efficient machine operation	Extended maintenance periods										
13	Match the Following.		1-d, 2-c, 3-b, 4-a	1-b, 2-c, 3-a, 4-d	1-b, 2-a, 3-c, 4-d	1-d, 2-c, 3-a, 4-b										
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14	What safety mechanisms are employed to avoid unintended or repeated press strokes in power presses?		Anti-repeat controls	Noise reduction systems	Two-hand controls	Vibration dampers										
15	Identify the most effective risk control measure related to use of power tool from the statements given.		use of battery powered tool	inspecting tool before use	use hand gloves to minimise vibration	use of tool tie to avoid dropping of tools										
16	In the context of manual handling, what does the study of kinetics primarily focus on?		Biomechanics and physical principles of forces and movements	Psychological elements influencing task performance	The impact of culture on manual handling techniques	Environmental circumstances during manual activities										
17	What is the main objective behind incorporating safe distances into the design of plant layouts?		Improving Visual Appeal	Ensuring Operational Safety	Lowering maintenance expenses	Increasing storage capacity										
18	Which precautionary step is effective in avoiding unintentional activation of electrical systems while performing maintenance tasks?		Arc Flash Protection	Lockout and Tagout	Grounding Methods	Electrostatic discharge										
19	Match the following Overload and Short Circuit Protection types with their definition.		a-2, b-4, c-3, d-1	a-1, b-2, c-3, d-4	a-4, b-3, c-2, d-1	a-4, b-2, c-3, d-1										
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20	What classification of workplace hazard encompasses elements such as noise, extreme temperatures, and ergonomic stressors?		Chemical Hazards	Mechanical Hazards	Biological Hazards	Physical Hazards										
21	What measure should be put in place to deal with chemical spills within agro/sugar industries?		Emergency Planning	Machinery Protection	Fall Protection	Heat stress Management										
22	What action is crucial for mitigating the hazard of insufficient training in on-board cargo handling operations?		Providing personal protective equipment (PPE)	Providing comprehensive training	ducting regular inspect	Improving ventilation and monitoring										
23	What preventive action can be taken in the IT, electronic, and related service sectors to mitigate the risks associated with radiation exposure?		Stress management programs	Ergonomic furniture	Suppression systems	Shielding and safety regulations										

24	Which of the following is true for Interlock machine Guard;		Requires a key	the machine if they are	omatically if the mac	Are battery operated
25	The purpose of a lock-out/tag-out procedure is to;		Improve productivity	Secure harmful energy sources	Slow down work	Save money
26	SCBA stands for		Self Closing Body Apparatus	Safe Control Body Apparatus	Self Contained Breathing Apparatus	Self Contained Body Apparatus
27	What is the term used to describe the process of evaluating the severity (seriousness) and probability of risks?		Risk Assessment	Probability Estimation	Hazard Identification	Incident Investigation
28	Match the following in Column A with their description in Column B.					
29	What was the main type of substance that played a central role in the Mexico Tank Farm disaster?		Water	Liquefied Petroleum Gas (LPG)	Gasoline	Coal
30	What important regulatory body was established as a result of the Flixborough disaster to oversee safety in major hazard industries?		Environmental Protection Agency (EPA)	Occupational Safety and Health Administration (OSHA)	Hazardous Installations Directorate of the Health and Safety Executive (HSE)	Industrial Safety Committee (ISC)
31	What is the name of gas leaked from LG Polymers at Visakhapatnam on 7 th may 2020?		Chlorine	Styrene	Methyl Isocyanate	Ammonia
32	In India, Fire service week is observed in remembrance of the lives lost in the following disaster;		Uphar cinema fire in delhi	Bhopal gas disaster	Circus fire in Bangalore	Bombay Port fire
33	What is the main objective of taking into account criteria for the location and arrangement of chemical plants?		Increasing Earnings	Ensure safety, environmental protection, and operational efficiency	Reduce Regulating Compliance	Reduce Transportation Expenses
34	What does VOC stand for in the context of nitrogen blanketing?		Volatile Oxygen Components	Volatile Organic Compounds	Ventilation of Oxygen Concentration	Viscosity of Organic Chemicals
35	What should you do if you accidentally splash a corrosive chemical on your skin?		Rinse the affected region with plenty of water for at least 15 minutes	Rub the affected area to remove the chemical	Bandage the area and continue working	Apply an alcohol-based sanitizer to neutralize the chemical
36	What is the purpose of conducting a Pre-Start-Up Safety Review (PSSR) before initiating plant operations?		Evaluate Personnel performance during startup	Ensure equipment maintenance is current	Identify potential safety issues and verify readiness	Review financial aspects of the plant's operations
37	What does the "PASS" acronym stand for in relation to using a fire extinguisher?		Prevent, Alert, Suppress, Secure	Pull, Aim, Squeeze, Sweep	Push, Adjust, Stop, Switch	Prepare, Assess, Select, Start
38	Which form of combustion results in the production of carbon monoxide as a secondary product?		Complete Combustion	Incomplete Combustion	Spontaneous combustion	Rapid combustion
39	Which of the following is NOT a common application of pressure vessels?		Air conditioning units	Steam boilers	Propane grills	Water heaters
40	If a gas cylinder has yellow colour band at its neck end, Which gas contains in it?		Non flammable and non toxic	Flammable but toxic	Flammable and non toxic	Non flammable but toxic
41	Which of the following is commonly employed to recognize potential dangers in operating chemical process plants?		Process optimization	Safety audit	Environmental impact assessment	Hazard and Operability Study (HAZOP)
42	What is the time limit of STEL for chemical exposure to a person?		8 Hours	60 Minutes	15 Minutes	5 Minutes
43	What kind of details are usually incorporated into a safety checklist?		Safety Precautions and Procedures	Equipment Purchase Dates	Task Deadlines	Employee Salaries
44	Which device employs light-emitting diodes (LEDs) and phototransistors to accomplish electric isolation?		Inductors	Transformers	Capacitors	Optoisolators
45	In the Swiss Cheese Model of accident causation, what does each "slice" of cheese represent?		Layers of protection in a safety system	Different types of incidents	The chronological sequence of events in an accident	The location of the incident
46	What is the primary purpose of analyzing near-miss incidents?		Assigning blame to persons involved	Demonstrating the effectiveness of safety systems	Learning from potential hazards and preventing future accidents	Playing down the impact of small incidents
47	How is the Severity Rate (SR) calculated?		(Total number of incidents / Total hours worked) x 200,000	(Total Man-days lost due to injuries / Total Man-hours worked) x 100,000	(Total number of accidents / Total number of employees) x 100	(Total number of near-miss incidents / Total hours worked) x 100,000
48	Which Indian Standard (IS) is used for analysis of accidents?		IS3786	IS5216	IS5327	IS5557
49	What is correct sequence of hierarchy of control?		Elimination, Substitution, Engineering control, Administrative & PPE	PPE, Substitution, Engineering control, Elimination	Engineering Control, Substitution, Elimination, PPE	Substitution, PPE, Elimination, Engineering control
50	Match the Following in Column A with their description in Column B.					
51	As per the MSIHC Rules, every occupier of MAH unit has to conduct an external safety audit at least once in a		6 Months	12 Months	18 Months	24 Months
52	What control method entails making physical changes to the workplace environment or equipment in order to lessen or remove hazards?		Administrative Controls	Substitution	Changing the Process	Engineering Controls
53	Which legal framework lays down requirements for working conditions, including ventilation, in Indian factories?		ISO 14001	OSHA Act	Factories Act, 1948	ASHRAE Standard 62.1
54	What is the unit of measurement of illumination?		Lux	Decibel	Ampere	None of the above
55	What is the maximum permissible noise level limit in a factory for 8 hours duration?		60dB	75dB	115dB	85dB
56	How would you categorize lung diseases that result from inhaling workplace dust particles like coal dust?		Pneumonia	Asthma	Pneumoconiosis	Bronchitis

57	In a man-machine environment system, what is the key aspect?	Isolating humans from machine interaction	Eliminating the need for human intervention	Optimizing collaboration between humans and machines to accomplish tasks	Reducing the complexity of machines to make them user-friendly
58	Repetitive motion injuries are caused by _____ exposure to a combination of factors.	Short	Prolonged	Immediate	Intermittent
59	The Model Rules prescribe the maximum permissible weight to be manually lifted by an adult worker without assistance. What is this weight?	15 kilograms	20 kilograms	55 kilograms	30 kilograms
60	Under the Factories Act, 1948, what is the maximum number of hours of work allowed in a week?	48 hours	40 hours	36 hours	32 hours
61	Electric equipment shall have danger notice with a sign of skull and bones, if voltage exceeds.....	100V	150V	250V	440V
62	What is prescribed training period for the drivers carrying hazardous goods by road under the Rule 9 of the Central Motor Vehicle Rules, 1989.	1 Day	2 Days	3 Days	4 Days
63	The Public Liability Insurance Act, 1991 applies to?	All industries in India	Industries dealing with hazardous substances listed in the act	Industries operating in rural areas	Only industries with foreign investment
64	Among the following topics, which is addressed by ILO Conventions and Recommendations?	Space exploration techniques.	Cooking recipes for international cuisines.	Equal pay for equal work.	Methods of artistic expression.
65	As per the Factories Act 1948, the requirement of one first-aid box per every (-----) workers.	50	150	100	1000
66	As per the Factories Act 1948, all lifting appliances are thoroughly examined by Competent Person at least once in a period of (.....) months.	6	12	24	48
67	As per the hazardous area classification which is the highest hazardous zone?	Zone 0	Zone 1	Zone 2	Zone 1 & 2
68	Display of emergency information panel is a mandatory on the vehicles arrying hazardous goods under (.....)	Factories Act	Motor Transport Workers Act	Air Act	Central Motor Vehicles Act
69	At what minimum depth the underground cable of voltage exceeding 33 kV shall be laid?	1.2 m	1 m	0.8 m	0.5 m
70	What is the time period of a periodical inspection and testing of electrical installations of voltage above 650 V by the electrical inspector as per the CEA Regulations 2010?	5 Years	15 Years	7 Years	10 Years
71	Chemical reaction in which heat is absorbed is called as;	Endothermic	Exothermic	Neutral	None of the above
72	Carbon dioxide gas extinguishes fire mainly by _____ principle	cooling	starvation	smothering	evaporation
73	As per the National Building Code, 2016, for high rise buildings more than two years old, fire evacuation drills shall be conducted, at least once _____	every 3 month	every 6 months	every 12 months	every month
74	The risks at workplace shall be controlled and brought down to ALARP, and ALARP means	Actual Lower Aim Result Possible	Access Lower Aid Request Practice	As Less As Really Possible	As Low As Reasonably Practicable
75	The huge amount of information on accident statistics, health data, environmental aspects, trainings, now can be easily stored, analysed, transmitted and used for presenting an accurate MIS to management, which will show the results of investments in OH&S. Here MIS means:	Market Involvement Status	Management Information System	Management Involvement Status	Marketing Information System
76	Dry chemical powder having monoammonium phosphate as the main chemical constituent can be used for extinguishing Class _____ fires	B and C only	A and C only	A, B and C	D Only
77	What is the full form of BLEVE?	Boiler Low Expanding Vapour Explosion	Boiler Less Exploding Vital Equipment	Boiling Level Equivalent Vigorous Explosion	Boiling Liquid Expanding Vapour Explosion
78	_____ is the lowest temperature at which the application of an ignition source will cause a flame to flash across the surface of the liquid	Boiling point	Vapour pressure	Flash point	Evaporation point
79	As per Heinrich, the occurrence of a preventable injury is the natural culmination of a series of events, which invariably occur in a fixed and logical manner. List out in chronological order the five factors. 1. Fault of person, 2. Social environment/Ancestry, 3. Unsafe Act/mechanical or physical hazard 4. Injury, 5. Accident	2, 1, 3, 5, 4	1, 2, 3, 4, 5	2, 1, 5, 3, 4	2, 1, 4, 3, 5
80	Which indian standard is referred for conducting safety audit?	IS3786	IS14489	IS15793	IS45001

Environment

S. No.	Question	Choice 1	Choice 2	Choice 3	Choice 4
1	What is the primary objective of the State Pollution Control Board (SPCB) as per the Water (Prevention and Control of Pollution) Act, 1974?	Finance the water conservation projects	Groundwater extraction	Implement water conservation	Control water pollution
2	Which of the following activities would require a 'consent to operate' from the State Pollution Control Board (SPCB) under the Air Act, 1981?	Setting up a small-scale industry	Household cooking using LPG	Public transportation using electric vehicles	Planting trees in urban areas
3	Which of the given options represents the purpose of the Public Liability Insurance Act?	To regulate the use of public spaces for commercial activities	To regulate the import and export of hazardous chemicals	To promote public awareness about environmental protection	To ensure liability coverage for damage caused by pollution
4	Mark Industries, a major manufacturing company, operates in a state where strict regulations under the Water and Air Acts. Which of the following roles is likely to be carried out by the State Pollution Control Board (SPCB)?	Monitoring local transportation routes	Regulating the emission of pollutants from the industries	Ensuring proper waste disposal at households	Managing public parks and recreational areas
5	A major industrial plant in the state is suspected of releasing toxic pollutants into the air. What would likely be the course of action of state pollution control board?	Focus solely on promoting tourism in the region	Ignore the situation as it's beyond their scope	Wait for public complaints before taking any action	Conduct an investigation and take necessary regulatory actions
6	Which waste management technique can lead to soil pollution?	Landfilling	Composting	Recycling	Reusing
7	The local environmental authorities have mandated the implementation of a Common Effluent Treatment Plant (CETP) in the industrial area. How will CETP contribute to environmental protection?	By allowing industries to bypass wastewater treatment regulations	By concentrating all industrial wastewater at a single point of discharge	By releasing treated effluents without any monitoring	By increasing pollution levels in the water body
8	Which of the following symbol is found in label of bio hazardous waste materials?				
9	Which of the following is the correct group of greenhouse gases?	Oxygen (O ₂), Nitrogen (N ₂), Carbon Dioxide (CO ₂), Sulphur Dioxide (SO ₂)	Carbon Dioxide (CO ₂), Methane (CH ₄), Oxygen (O ₂), Nitrogen (N ₂)	Hydrogen (H ₂), Nitrous Oxide (N ₂ O), Water Vapour (H ₂ O), Carbon Monoxide (CO)	Carbon Dioxide (CO ₂), Methane (CH ₄), Nitrous Oxide (N ₂ O), Ozone (O ₃)
10	Which type of light is considered to be the most energy efficient?	Halogen bulbs	LED bulbs	CFL bulbs	Incandescent bulbs
11	Which of the following are key elements of the energy management system ISO 50001?	Energy policy, energy planning, and energy performance evaluation	Quality management, safety management, and financial management	Energy efficiency, waste reduction, and resource conservation	Employee training, product marketing, and customer relations
12	Which of the following is the essence of Sustainable Operations Management?	Short-term profit optimization	Cost reduction	Quick fixes for environmental challenges	Integration of environmental, social, and economic factors
13	The full form of MINAS in respect of effluent standards achievable by industry is	Minimum National Standards	Maximum National Standards	Minimal National Standards	All of these
14	Zero Liquid Discharge (ZLD) refers to	No process effluent is generated inside factory	All process effluent generated is used within factory without any treatment	All process effluent generated is used within factory after required treatment	None of these
15	In Air Quality Index (AQI) of the Central Pollution Control Board, RED colour signifies which category?	Very Poor	Poor	Moderate	Good
16	Permissible concentration of SO ₂ in ambient air for industrial areas as per National Ambient Air Quality Standards based on 24 hourly monitored values is	60 microgram per cubic meter	80 microgram per cubic meter	120 microgram per cubic meter	None of these
17	CRZ stands for	Coastal Registration Zone	Coastal Regulation Zone	Coastal Red Zone	None of these
18	United Nations came up with how many sustainable development goals?	15	16	17	20
19	Name the card that must be carried by the people involved in transportation of hazardous wastes.	TREM Cards	OSHA cards	MSDS Cards	None of these
20	Ambient air quality standard in respect of noise for industrial area during night time is (____) dB(A) Leq	70	55	45	40

Answer Key

General Aptitude

S.No	1	2	3	4	5	6	7	8	9	10
Correct answer	Choice 4	Choice 1	Choice 3	Choice 2	Choice 4	Choice 3	Choice 4	Choice 4	Choice 2	Choice 4

S.No	11	12	13	14	15	16	17	18	19	20
Correct answer	Choice 1	Choice 3	Choice 4	Choice 1	Choice 2	Choice 3	Choice 1	Choice 3	Choice 2	Choice 3

Safety

S.No	1	2	3	4	5	6	7	8	9	10
Correct option	3	2	2	3	1	3	3	2	3	4

S.No	11	12	13	14	15	16	17	18	19	20
Correct option	2	2	4	1	1	1	2	2	3	4

S.No	21	22	23	24	25	26	27	28	29	30
Correct option	1	2	4	2	2	3	1	2	2	3

S.No	31	32	33	34	35	36	37	38	39	40
Correct option	2	4	2	2	1	3	2	2	1	4

S.No	41	42	43	44	45	46	47	48	49	50
Correct option	4	3	1	4	1	3	2	1	1	3

S.No	51	52	53	54	55	56	57	58	59	60
Correct option	2	4	3	1	4	3	3	2	3	1

S.No	61	62	63	64	65	66	67	68	69	70
Correct option	3	3	2	3	2	2	1	4	1	1

S.No	71	72	73	74	75	76	77	78	79	80
Correct option	1	3	2	4	2	3	4	3	1	2

Environment

S.No	1	2	3	4	5	6	7	8	9	10
Correct answer	Choice 4	Choice 1	Choice 4	Choice 2	Choice 4	Choice 1	Choice 2	Choice 2	Choice 4	Choice 2

S.No	11	12	13	14	15	16	17	18	19	20
Correct answer	Choice 1	Choice 4	Choice 3	Choice 3	Choice 1	Choice 2	Choice 2	Choice 3	Choice 1	Choice 1