

## 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 <b>come what may</b> ."	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 <b>on cloud nine</b> 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. Easel, 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 tomorrow?	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	Web search engine	Augmented	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

## General Safety

S.No.	Question	Option 1	Option 2	Option 3	Option 4										
1	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										
2	What is the name of gas leaked from IG Polymers at Visakhapatnam on 7 <sup>th</sup> may 2020?	Chlorine	Styrene	Methyl Isocyanate	Ammonia										
3	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										
4	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										
5	Which of the following is NOT a common application of pressure vessels?	Air conditioning units	Steam boilers	Propane grills	Water heaters										
6	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										
7	What kind of details are usually incorporated into a safety checklist?	Safety Precautions and Procedures	Equipment Purchase Dates	Task Deadlines	Employee Salaries										
8	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										
9	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										
10	Which Indian Standard (IS) is used for analysis of accidents?	IS3786	IS5216	IS5327	IS5567										
11	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										
12	Match the Following in Column A with their description in Column B <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Column A</th> <th style="width: 50%;">Column B</th> </tr> </thead> <tbody> <tr> <td>1. Identify Hazards</td> <td>a. Putting designed control measures into practice</td> </tr> <tr> <td>2. Determine Control Measures</td> <td>b. Identifying potential sources of danger</td> </tr> <tr> <td>3. Implement Controls</td> <td>c. Proposing strategies to mitigate or eliminate hazards</td> </tr> </tbody> </table>	Column A	Column B	1. Identify Hazards	a. Putting designed control measures into practice	2. Determine Control Measures	b. Identifying potential sources of danger	3. Implement Controls	c. Proposing strategies to mitigate or eliminate hazards	1-a, 2-c, 3-c	1-c, 2-b, 3-a	1-b, 2-c, 3-a	1-b, 2-a, 3-c		
Column A	Column B														
1. Identify Hazards	a. Putting designed control measures into practice														
2. Determine Control Measures	b. Identifying potential sources of danger														
3. Implement Controls	c. Proposing strategies to mitigate or eliminate hazards														
13	Which Indian standard is referred for conducting safety audit?	IS3786	IS14489	IS15793	IS45001										
14	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										
15	What is the unit of measurement of illumination?	Lux	Decibel	Ampere	None of the above										
16	What is the maximum permissible noise level limit in a factory for 8 hours duration?	60dB	75dB	115dB	85dB										
17	How would you categorize lung diseases that result from inhaling workplace dust particles like coal dust?	Pneumonia	Asthma	Pneumoconiosis	Bronchitis										
18	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										
19	Repetitive motion injuries are caused by _____ exposure to a combination of factors.	Short	Prolonged	Immediate	Intermittent										
20	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										
21	Electric equipment shall have danger notice with a sign of skull and bones, if voltage exceeds.....	100V	150V	250V	440V										
22	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										
23	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										
24	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.										
25	Which ISO standard is applicable for environmental management system?	ISO 9001	ISO 14001	ISO 27001	ISO 45001										
26	Which aspect of the oil industry does OISD primarily focus on?	Exploration techniques	Market analysis	Health and safety	Taxation policies										
27	Which act led to the establishment of PNGRB (Petroleum and Natural Gas Regulatory Board) in India?	Oil and Gas Regulatory Act, 2005	Petroleum Control and Regulation Act, 2003	Petroleum and Natural Gas Regulatory Board Act, 2006	Energy Sector Regulation Act, 2010										
28	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										
29	As per the hazardous area classification which is the highest hazardous zone?	Zone 0	Zone 1	Zone 2	Zone 1 & 2										
30	As per Gas Cylinder Rules 2016, a 'Gas cylinder' means any closed metal container having a volume exceeding (....) ml but not exceeding (....) liters intended for the storage and transport of compressed gas.	100, 2000	500, 1000	200, 500	100, 1000										
31	The Public Liability Insurance Act was notified in year (....)	1948	1986	1923	1991										
32	Display of emergency information panel is a mandatory on the vehicles carrying hazardous goods under (.....)	Factories Act	Motor Transport Workers Act	Air Act	Central Motor Vehicles Act										
33	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										
34	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										
35	Chemical reaction in which heat is absorbed is called as:	Endothermic	Exothermic	Neutral	None of the above										
36	Carbon dioxide gas extinguishes fire mainly by _____ principle	cooling	starvation	smothering	evaporation										
37	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										
38	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										
39	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										
40	Which precautionary steps is effective in avoiding unintentional activation of electrical systems while performing maintenance tasks?	Arc Flash Protection	Lockout and Tagout	Grounding Methods	Electrostatic discharge										
41	Match the following Overload and Short Circuit Protection types with their definition. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Left side:</th> <th style="width: 50%;">Right side:</th> </tr> </thead> <tbody> <tr> <td>a. Circuit Breakers.</td> <td>1. Monitors the difference between incoming and outgoing currents to detect short circuits.</td> </tr> <tr> <td>b. Fuses.</td> <td>2. Monitors temperature and trips the circuit in case of overheating.</td> </tr> <tr> <td>c. Thermal Overload Relays.</td> <td>3. Melts when current exceeds a certain threshold, breaking the circuit.</td> </tr> <tr> <td>d. Differential Current Protection.</td> <td>4. Automatically disconnects the circuit when current exceeds a safe limit.</td> </tr> </tbody> </table>	Left side:	Right side:	a. Circuit Breakers.	1. Monitors the difference between incoming and outgoing currents to detect short circuits.	b. Fuses.	2. Monitors temperature and trips the circuit in case of overheating.	c. Thermal Overload Relays.	3. Melts when current exceeds a certain threshold, breaking the circuit.	d. Differential Current Protection.	4. Automatically disconnects the circuit when current exceeds a safe limit.	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
Left side:	Right side:														
a. Circuit Breakers.	1. Monitors the difference between incoming and outgoing currents to detect short circuits.														
b. Fuses.	2. Monitors temperature and trips the circuit in case of overheating.														
c. Thermal Overload Relays.	3. Melts when current exceeds a certain threshold, breaking the circuit.														
d. Differential Current Protection.	4. Automatically disconnects the circuit when current exceeds a safe limit.														
42	What classification of workplace hazard encompasses elements such as noise, extreme temperatures, and ergonomic stressors?	Chemical Hazards	Mechanical Hazards	Biological Hazards	Physical Hazards										
43	The purpose of a lock-out/tag-out procedure is to;	Improve productivity	Prevent harmful energy sources	Slow down work	Save money										
44	SCBA stands for	Self Closing Body Apparatus	Self Control Body Apparatus	Self Contained Breathing Apparatus	Self Contained Body Apparatus										
45	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										
46	Match the following question with correct answers on safety, education and training. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Left side:</th> <th style="width: 50%;">Right side:</th> </tr> </thead> <tbody> <tr> <td>a. Safety education and training.</td> <td>1. Simulation of emergency situation and evaluate employees response</td> </tr> <tr> <td>b. Reinforcement of safety practices among employees by.</td> <td>2. Promoting safety conscious culture and minimizing work place hazards.</td> </tr> <tr> <td>c. Major goal of safety drill</td> <td>3. Regular safety training sessions and workshops</td> </tr> </tbody> </table>	Left side:	Right side:	a. Safety education and training.	1. Simulation of emergency situation and evaluate employees response	b. Reinforcement of safety practices among employees by.	2. Promoting safety conscious culture and minimizing work place hazards.	c. Major goal of safety drill	3. Regular safety training sessions and workshops	a-2, b-1, c-3	a-2, b-3, c-1	a-1, b-2, c-3	a-2, b-3, c-1		
Left side:	Right side:														
a. Safety education and training.	1. Simulation of emergency situation and evaluate employees response														
b. Reinforcement of safety practices among employees by.	2. Promoting safety conscious culture and minimizing work place hazards.														
c. Major goal of safety drill	3. Regular safety training sessions and workshops														
47	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										
48	Risk is defined as;	Probability X Hazard	Accident X Probability	Probability X Consequences	Consequences X Hazard										
49	Which of the following is/are physical hazard agent(s)	Falls	Electricity	Noise	All of these										
50	ABC in the First	Airway, Bandage and Call medical emergency	Airways, Breathing and Circulation	Ambulance, Bandage and Circulation	Airway, Breathing and Call medical emergency										

## Oil and Gas

S. No.	Item/Question	Option 1	Option 2	Option 3	Option 4
1	Which of the following hazards in the Oil and Gas industry can not be mitigated by implementing "permit-to-work" systems?	Noise-induced hearing loss	Fires and explosions	Slips, trips, and falls	Confined space entry accidents
2	What role does a closed-loop sampling system play while collecting samples of highly volatile hydrocarbons from a high-pressure pipeline in the oil and gas industry?	It increases the sampling frequency, allowing for better data accuracy.	It allows for the use of any type of hand tools without the risk of sparking.	For preventing accidental release or exposure.	It reduces the need for safe distance from electrical equipment during sampling.
3	Which sequence correctly represents the safe handover process for a high-pressure pump scheduled for maintenance?	Isolating, Purging, Draining, Depressurizing, Cleaning	Depressurizing, Draining, Purging, Isolating, Cleaning	Draining, Depressurizing, Isolating, Purging, Cleaning	Depressurizing, Isolating, Draining, Purging, Cleaning
4	Which of the following is an important consideration when designing storage layouts for atmospheric venting?	The velocity of wind in the storage area	The color of storage containers	The weight of the storage materials	The cost of storage materials
5	What is the primary purpose of a relief valve in the storage and handling of hazardous chemicals and industrial gases?	To regulate the flow rate of chemicals and gases in the system.	To prevent overpressure and ensure safe operation by releasing excess pressure.	To control the temperature of stored chemicals and gases.	To reduce the size of storage tanks required for hazardous materials.
6	Which of the following actions will best maintain electrical continuity and resistance in the grounding and bonding system, hence decreasing the risk of a static discharge igniting a flammable atmosphere?	Frequent replacement of bonding and grounding cables.	Employing larger diameter cables for grounding and bonding.	Regular inspection and cleaning of all connection points.	Using the highest resistance possible in grounding and bonding cables.
7	Suppose a storage tank contains a blend of crude oil and a flammable hydrocarbon solvent. What will happen if this blend comes into contact with Sodium Hypochlorite (NaOCl)?	Formation of a less volatile compound	Initiation of a polymerization reaction	Precipitation of Sodium Chloride	Generation of Chlorine Gas
8	Which of the following gas leak detection methods provides the highest sensitivity and real-time monitoring capabilities?	Ultrasonic Leak Detection	Flame Ionization Detector (FID)	Infrared Gas Imaging	Catalytic Bead Sensor
9	What practices should be followed for safe storage of LPG, considering factors like pressure-temperature relationships, leak sources, and storage vessel conditions?	Regularly reducing storage pressure to minimize the quantity of LPG that could leak during an accidental release.	Storing LPG in high-volume storage vessels to minimize the frequency of storage transfer operations.	Encouraging the use of personal protective equipment (PPE) only when there is a significant risk of leak or spill.	Adopting a rigorous inspection and maintenance schedule for storage vessels, pressure relief devices, and associated equipment.
10	Which risk mitigation strategy is most appropriate to minimize the consequences of an unexpected leak in a petroleum tanker truck during transportation?	Emergency Shutdown System (ESD) with Remote Activation	Increased Driver Training on Defensive Driving Techniques	Advanced GPS Tracking for Real-time Monitoring	Regular Vehicle Maintenance and Inspection Protocols
11	Which fail-safe system improvement can best reduce human error potential in petroleum product transportation?	Enhancing physical robustness of the transport vessel	Incorporating an automatic shutdown feature	Increasing security measures against external threats	Regularizing manual safety inspections
12	In which process a fire is initiated due to the exothermic oxidation of a substance, releasing heat and leading to a self-sustained combustion process?	Pyrolysis Theory	Spontaneous Combustion Theory	Flame Propagation Theory	Fire Tetrahedron Theory
13	Which specific zone is characterized by the stoichiometric ratio, representing the perfect balance between fuel and oxygen for complete combustion, and consequently exhibits the highest flame temperature?	Ignition zone	Pre-heat zone	Reaction zone	Cool-down zone
14	Which of the following fire protection measures is considered the last line of defence when all other primary and secondary measures have failed?	Fire-resistant construction materials	Automatic fire detection and alarm systems	Firewater spray system	Fire fighting foam and chemical agents
15	Which fire protection classification is best suited for areas with the highest fire risk, such as processing units and storage areas?	Portable water-based systems	Fixed non-water-based systems	Fixed water-based systems	Portable non-water-based systems
16	Which fire extinguishing agent would be the most appropriate choice for effective suppression while minimizing damage to the equipment?	Dry Chemical Powder (DCP)	Carbon Dioxide (CO2)	Foam	Clean Agent (HFC-227ea)
17	Which method of entry employs the principle of "pressure demand" and provides the highest level of respiratory protection for firefighters?	Self-Contained Breathing Apparatus (SCBA)	Air Purifying Respirator (APR)	Supplied Air Respirator (SAR)	Powered Air-Purifying Respirator (PAPR)
18	What ventilation system in the industry uses controlled clean air introduction to maintain higher internal pressure, preventing smoke and contaminants from entering?	Exhaust ventilation	Supply ventilation	Recirculating ventilation	Pressurization ventilation
19	What distinguishes deflagration and detonation in terms of flame speed, shock wave formation, and energy release rate?	In deflagration, the flame speed is subsonic, while in detonation, it is supersonic.	Detonation creates shock waves, while deflagration doesn't produce any shock waves.	The energy release rate in a detonation is uniform, while in deflagration, it is variable.	Deflagration produces a higher energy release rate compared to detonation.
20	How does an understanding of personnel's cognitive and behavioural responses under stress influence the design and execution of evacuation procedures?	It assists in determining the safety equipment required.	It helps in establishing the duration for periodic emergency drills.	It influences the evacuation routing and movement strategies.	It aids in identifying potential hazardous materials on site.
21	When considering practical methods for designing evacuation passages and exits in emergency response, which factor ensures a smoother flow of people during an evacuation?	Incorporating multiple narrow exits spaced evenly apart.	Designing passages that merge into a single, wider main exit.	Introducing sharp turns and corners in the passage design.	Ensuring even flooring with minimal obstructions.
22	Which disaster response stage involves improving agency capacity, conducting drills, and securing resources?	Preparedness	Mitigation	Response	Recovery
23	As per the Disaster Management Act of 2005 in India, which of the following accurately describes the hierarchical functioning of disaster management authorities?	National Disaster Management Authority (NDMA) -> State Disaster Management Authority (SDMA) -> District Disaster Management Authority (DDMA)	State Disaster Management Authority (SDMA) -> National Disaster Management Authority (NDMA) -> District Disaster Management Authority (DDMA)	District Disaster Management Authority (DDMA) -> State Disaster Management Authority (SDMA) -> National Disaster Management Authority (NDMA)	National Disaster Management Authority (NDMA) and State Disaster Management Authority (SDMA) advise, while District Disaster Management Authority (DDMA) makes all policy decisions.
24	What is the highest level of emergency prescribed under the Petroleum and Natural Gas Regulatory Board (Codes of Practices for Emergency Response and Disaster Management Plan (ERDMP) Regulations, 2010)?	Level I	Level - II	Level - III	Level - IV
25	What is the frequency for conducting onsite mock drill for level I & II emergency stated under the Petroleum and Natural Gas Regulatory Board (Codes of Practices for Emergency Response and Disaster Management Plan (ERDMP) Regulations, 2010)?	Once in a 3 months	Once in a 6 months	Once in a 12 months	Once in a 18 months
26	OISD-STD-105 deals with;	Pressure relief and disposal system	Oil storage and handling	Work permit system	Layouts for oil and gas installations
27	As per Petroleum and Natural Gas Regulatory Board (Codes of Practices for Emergency Response and Disaster Management Plan (ERDMP) Regulations, 2010, the emergency siren code of straight run for 2 minutes is specified for	Level I emergency	Level II emergency	Testing of siren	None of these
28	For butane gas emission the sensor of Gas Detection System should be located .....	below the probable leak source	above the probable leak source	Anywhere	None of these
29	Which of the following legislation specifies minimum safety distances between the pressure vessels?	Factories rules	Environment (protection) rules	Petroleum rules	Gas cylinders rules
30	How static electricity can be controlled for pipelines carrying hydrocarbons	Bonding & grounding	Earthing	Lightning arrestor	None of these

## 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 <sub>2</sub> ), Nitrogen (N <sub>2</sub> ), Carbon Dioxide (CO <sub>2</sub> ), Sulphur Dioxide (SO <sub>2</sub> )	Carbon Dioxide (CO <sub>2</sub> ), Methane (CH <sub>4</sub> ), Oxygen (O <sub>2</sub> ), Nitrogen (N <sub>2</sub> )	Hydrogen (H <sub>2</sub> ), Nitrous Oxide (N <sub>2</sub> O), Water Vapour (H <sub>2</sub> O), Carbon Monoxide (CO)	Carbon Dioxide (CO <sub>2</sub> ), Methane (CH <sub>4</sub> ), Nitrous Oxide (N <sub>2</sub> O), Ozone (O <sub>3</sub> )
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 <sub>2</sub> 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

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

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

### General Safety

<b>S.No</b>	1	2	3	4	5	6	7	8	9	10
<b>Correct option</b>	1	2	2	2	1	4	1	3	2	1

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

<b>S.No</b>	21	22	23	24	25	26	27	28	29	30
<b>Correct option</b>	3	3	2	3	2	3	3	2	1	2

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

<b>S.No</b>	41	42	43	44	45	46	47	48	49	50
<b>Correct option</b>	3	4	2	3	3	2	3	3	4	2

## Oil and Gas

<b>S.No</b>	1	2	3	4	5	6	7	8	9	10
<b>Correct answer</b>	1	3	4	1	2	3	4	3	4	1

<b>S.No</b>	11	12	13	14	15	16	17	18	19	20
<b>Correct answer</b>	2	2	3	3	3	4	1	4	2	3

<b>S.No</b>	21	22	23	24	25	26	27	28	29	30
<b>Correct answer</b>	4	1	1	3	1	3	3	1	3	1

## Environment

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

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

NATIONAL SAFETY COUNCIL