

General Aptitude

Q.1 – Q.5 Carry ONE mark Each

Q.1	Courage : Bravery :: Yearning : Select the most appropriate option to complete the analogy.
(A)	Longing
(B)	Yelling
(C)	Yawning
(D)	Glaring
/	

Q.2	We tennis in the lawn when it suddenly started to rain.
	Select the most appropriate option to complete the above sentence.
(A)	have been playing
(B)	had been playing
(C)	would have been playing
(D)	could be playing
	KOOTT



Q.3 A 4 \times 4 digital image has pixel intensities (U) as shown in the figure. The number of pixels with $U \leq 4$ is: (A) (B) (C) (D) SATE 2024 17 Roorkee









Q.5	A rectangle has a length L and a width W, where $L > W$. If the width, W, is increased by 10%, which one of the following statements is correct for all values of L and W?
(A)	Perimeter increases by 10%.
(B)	Length of the diagonals increases by 10%.
(C)	Area increases by 10%.
(D)	The rectangle becomes a square.





Q.6 – Q.10 Carry TWO marks Each

Q.6	Colu by K	umn-I has statements made by Shanth Canishk.	iala;	and, Column-II has responses given
		Column-I		Column-II
	Р.	This house is in a mess.	1.	Alright, I won't bring it up during our conversations.
	Q.	I am not happy with the marks given to me.	2.	Well, you can easily look it up.
	R.	Politics is a subject I avoid talking about.	3.	No problem, let me clear it up for you.
	S.	I don't know what this word means.	4.	Don't worry, I will take it up with your teacher.
	Iden	tify the option that has the correct ma	tch l	between Column-I and Column-II.
(A)	$\mathbf{P}-2$	2; $Q - 3; R - 1; S - 4$		
(B)	P – 3	3; Q - 4; R - 1; S - 2		
(C)	P - 4	4; Q – 1; R – 2; S – 3	2	025
(D)	P – 1	1; Q – 2; R – 4; S – 3		
		IT Roo	r	kee
		Roo	r	Ko



Q.7 Weight of a person can be expressed as a function of their age. The function usually varies from person to person. Suppose this function is identical for two brothers, and it monotonically increases till the age of 50 years and then it monotonically decreases. Let a_1 and a_2 (in years) denote the ages of the brothers and $a_1 < a_2$. Which one of the following statements is correct about their age on the day when they attain the same weight? (A) $a_1 < a_2 < 50$ $a_1 < 50 < a_2$ (B) (C) $50 < a_1 < a_2$ Either $a_1 = 50 \text{ or } a_2 = 50$ (D) 117 Roorkee



Q.8	A regular dodecagon (12-sided regular polygon) is inscribed in a circle of radius r cm as shown in the figure. The side of the dodecagon is d cm. All the triangles (numbered 1 to 12) in the figure are used to form squares of side r cm and each numbered triangle is used only once to form a square.
	The number of squares that can be formed and the number of triangles required to form each square, respectively, are:
	Note: The figure shown is representative.
(A)	3; 4
(B)	4; 3
(C)	3; 3
(D)	3;2 TE 200
	GAIL 2025
	117 Roorkee







Q.10 The number of patients per shift (X) consulting Dr. Gita in her past 100 shifts is shown in the figure. If the amount she earns is $\gtrless 1000(X - 0.2)$, what is the average amount (in \mathfrak{F}) she has earned per shift in the past 100 shifts? Note: The figure shown is representative. 50 40 40 Number of shifts 30 30 20 20 10 10 0 5 7 8 6 Number of patients per shift (X) (A) 6,100 **(B)** 6,300 (C) 6,000 6,500 (D)



Q.11 – Q.35 Carry ONE mark Each





Q.13	Consider the following two series
	$P: \sum_{n=1}^{\infty} \frac{1}{n}$
	$Q: \sum_{n=1}^{\infty} \frac{1}{n^2}$
	Choose the correct option from the following
(A)	P is convergent series; Q is divergent series
(B)	P is divergent series; Q is convergent series
(C)	Both P and Q are convergent series
(D)	Both P and Q are divergent series

Q.14	Choose the redox reaction from the following
(A)	$H_2CO_3 \leftrightarrow H^+ + HCO_3^-$
(B)	$Hg^{2+} + 2 OH^{-} \leftrightarrow Hg(OH)_{2}$
(C)	$C_6H_{12}O_6 + 6 O_2 \leftrightarrow 6 CO_2 + 6 H_2O$
(D)	$CaCO_3 (s) \leftrightarrow Ca^{2+} + CO_3^{2-}$
Roorkee	



Q.15	Which one of the following is performed by autotrophic bacteria?
(A)	Aerobic biodegradation of organic matter
(B)	Anaerobic biodegradation of organic matter
(C)	Aerobic nitrification
(D)	Anaerobic de-nitrification

0.16	For flood routing, consider the following statements
	P : Hydrologic routing method uses continuity equation and momentum equation
	Q : Hydraulic routing method uses continuity equation and energy equation
	Choose the correct option from the following
(A)	P is TRUE; Q is TRUE
(B)	P is TRUE; Q is FALSE
(C)	P is FALSE; Q is TRUE
(D)	P is FALSE; Q is FALSE
	GAIL 1023
	117 Roorkee



Q.17	For a gradually varied flow, consider the following statements	
	$P: y_n > y_c > y$ in M_3 surface profile	
	$Q: y_n < y_c < y$ in S_1 surface profile	
	where, y_n is normal depth, y_c is critical depth, and y is flow depth.	
	Choose the correct option from the following	
(A)	P is TRUE; Q is TRUE	
(B)	P is TRUE; Q is FALSE	
(C)	P is FALSE; Q is TRUE	
(D)	P is FALSE; Q is FALSE	
	GATE 2025 // Roorkee	







Q.19	Multiple effect evaporator is commonly used, in the zero liquid discharge (ZLD) scheme, for
(A)	oxidation of organic pollutants
(B)	precipitation of heavy metals
(C)	concentrating reverse osmosis (RO) reject salts
(D)	performing selective ion exchange

Q.20	Consider the following statements
	P : According to the National Ambient Air Quality Standards (Central Pollution Control Board, Govt. of India, notification 2009), annual time weighted average PM_{10} standard is more than $PM_{2.5}$ standard.
	Q : According to the National Air Quality Index released by Govt. of India in 2015, sub index value of PM_{10} can be less than that of $PM_{2.5}$.
	Choose the correct option from the following
(A)	P is TRUE; Q is FALSE
(B)	P is FALSE; Q is TRUE
(C)	P is TRUE; Q is TRUE
(D)	P is FALSE; Q is FALSE



Q.21	Which option gives the components that are most likely to be present in the segregated combustible fraction (SCF) separated from raw mixed municipal solid waste (MSW)?
(A)	plastics, paper, rubber, metals
(B)	plastics, paper, leather, glass
(C)	plastics, leather, textiles, rubber
(D)	plastics, rubber, textiles, food waste

Q.22	Correctly match the sustainable	e development goal (SDG) with its theme
	SDG	Theme
	i. SDG 6	p. Good Health and Well-being
	ii. SDG 11	q. Responsible Consumption and Production
	iii. SDG 3	r. Sustainable Cities and Communities
	iv. SDG 12	s. Clean Water and Sanitation
(A)	i-q ii-r iii-p iv-s	2025
(B)	i-s ii-r iii-p iv-q	
(C)	i-s ii-r iii-q iv-p	Roorkee
(D)	i-p ii-q iii-r iv-s	



Q.23	Choose the correct option regarding the Basel Convention
(A)	Almost all the nations of the world assembled for the first time in the history to discuss and find out the solution for a common environmental problem.
(B)	It was for formulating the strategies and guidelines to reduce CO_2 and CH_4 emissions to control the global warming.
(C)	It was for formulating the strategies and guidelines to control the release of acidic gases that can cause acid rains in another country.
(D)	It was for formulating the strategies and guidelines for the trans-boundary movement of hazardous wastes.
/	

Q.24	Consider the following statements
	 (i) Environmental pollutant concentration is generally modeled using lognormal distribution. (ii) Environmental pollutant concentration is generally modeled using Poisson distribution. (iii) The weekly rate of exceedance of environmental pollutant concentration with regards to a given standard is generally modeled using lognormal distribution. (iv) The weekly rate of exceedance of environmental pollutant concentration with regards to a given standard is generally modeled using Poisson distribution. (iv) The weekly rate of exceedance of environmental pollutant concentration with regards to a given standard is generally modeled using Poisson distribution. (iv) The weekly rate of exceedance of environmental pollutant concentration with regards to a given standard is generally modeled using Poisson distribution.
(A)	(i) and (iv) are correct
(B)	(i) is correct and (iii) is incorrect
(C)	(ii) and (iv) are correct
(D)	(ii) and (iv) are incorrect



Q.25	Choose the correct statement(s) from the following regarding the structure/ reproduction of microorganisms
(A)	Prokaryotes do not have nucleus but Eukaryotes have nucleus.
(B)	Both Prokaryotes and Eukaryotes have nucleus.
(C)	No binary fission happens in Eukaryotes, however, Prokaryotes rely on binary fission for reproduction.
(D)	Both Prokaryotes and Eukaryotes rely on binary fission for reproduction.

Q.26	 Consider the following statements related to nitrification process: (i) Electron acceptor type vary depending on whether nitrosomonas or nitrobacter is involved. (ii) Predominant carbon source is organic matter. (iii) Predominant carbon source is inorganic carbon. (iv) Electron donor during conversion of ammonium ions to nitrite ions is apmonium ions
	Choose the correct option(s) from the following
(A)	(iii) and (iv) are correct
(B)	(i) and (ii) are correct
(C)	(i) is incorrect and (iii) is correct
(D)	(ii) is correct and (iii) is incorrect



Q.27	Stubble burning results in release of particulate matter, volatile organic compounds, oxides of nitrogen and sulfur, to name a few. A researcher is planning to use a conventional Gaussian dispersion model to estimate the contribution of stubble burning in a nearby state to air pollution in New Delhi. Choose the option(s) which could explain the possible limitations in this approach
(A)	assumption of steady state conditions e.g. constant wind speed, wind direction, and emission, etc. in conventional Gaussian dispersion models
(B)	non-accounting of wet and dry deposition in conventional Gaussian dispersion models
(C)	non-handling of chemical transformation of pollutants in conventional Gaussian dispersion models
(D)	requirement of more computational resources by conventional Gaussian dispersion models compared to chemical transport models

Q.28	Choose the correct option(s) from the following in the plastic waste management
(A)	Plastic wastes may be burnt to generate fuel oil and fuel gas.
(B)	Plastic wastes along with bitumen may be used for road/pavement construction.
(C)	Polyethylene terephthalate (PET) and high density polyethylene (HDPE) are the most common plastics for recycling.
(D)	Plastics made of branched monomers can be easily recycled.







Q.30	Choose the correct option(s) from the following regarding the symbiotic relationships
(A)	Lichens are a symbiotic association of fungi and bacteria. They can survive in extreme conditions of air pollution.
(B)	Lichens are a symbiotic association of fungi and bacteria. The fungi can absorb water and minerals from atmosphere, and bacteria can generate foods.
(C)	Lichens are a symbiotic association of fungi and algae. They can survive in extreme conditions, but are very sensitive to air pollution.
(D)	Lichens are a symbiotic association of fungi and algae. The fungi can absorb water and minerals from atmosphere, and algae can generate food through photosynthesis.

Q.31	Methane hydrates have special crystal structure of water, where methane gas molecules are trapped. Choose the correct option(s) from the following
(A)	Methane hydrates exist in abundance near the ocean bed, where the pressure is high enough for their existence.
(B)	Methane hydrates exist in abundance in the polar regions, where the temperature is low enough for their existence.
(C)	Methane hydrates can be a huge source of energy, but can accelerate global warming considerably if the entrapped methane is released to the atmosphere.
(D)	Methane hydrates can be a huge source of energy, but difficult to exploit commercially.



Q.32	Choose the correct option(s) from the following regarding urban environment
(A)	Urban heat island can exacerbate urban flooding by intensifying rainfall intensity.
(B)	Urban canyons increase ventilation by trapping heat and thus enhancing urban heat island effect.
(C)	Program evaluation and review technique (PERT) is always used to estimate the economic impact of mitigation strategies for urban heat island effect.
(D)	In general, land surfaces in urban areas emit more long wave radiation compared to those in rural areas, and thus contribute to higher night time temperature.

Q.33	Choose the correct option(s) from the following regarding cumulative toxicity
(A)	Bioaccumulation is the process by which a living organism keeps on accumulating pollutants in its body due to continuous exposure, whereas, bio-magnification is the process by which higher order organisms accumulate more pollutants than the lower order organisms in a food chain.
(B)	Biomagnification is the process by which a living organism keeps on accumulating pollutants in its body due to continuous exposure, whereas, bioaccumulation is the process by which higher order organisms accumulate more pollutants than the lower order organisms in a food chain.
(C)	Bioaccumulation and biomagnification are possible with heavy metals, but not with pesticides and pharmaceutical compounds.
(D)	Bioaccumulation and biomagnification are possible with heavy metals, pesticides and pharmaceutical compounds.



Q.34
$$\lim_{x \to 0} \left(\frac{\ln(1+x)}{2 \sin x} \right)$$
 is ______ (rounded off to two decimal places).

Q.35	An unconfined aquifer of areal extent 20 km \times 20 km has hydraulic conductivity of 4 m/day, porosity of 0.32, and storage coefficient (specific yield) of 0.18. If the initial saturated thickness of the aquifer is 30 m, and 4×10^8 m ³ of water is extracted
	from the aquifer, then the decline in the saturated thickness is m. (<i>rounded off to two decimal places</i>)





Q.36 – Q.65 Carry TWO marks each

Q.36	A researcher added certain amount of $HgCl_2$ to water at pH 10. He calculated the expected concentration of mercury in the water. He asked his student to measure the concentration. His student used an instrument that can measure only the free metal, Hg^{2+} . The student observed that the concentration measured by him was significantly less than the concentration calculated by the researcher. How can he explain the paradox to the researcher?
	Explanation 1 : Significant fraction of the mercury would have changed phase from aqueous to gaseous phase, thus leaving less mercury in the water
	Explanation 2: Fraction of the mercury added to water would have formed aqueous complexes
	Explanation 3: Fraction of the mercury added to water could have precipitated
	Choose the correct option from the following
(A)	only Explanation 1 is correct
(B)	Explanations 1 and 2 are correct
(C)	Explanations 1 and 3 are correct
(D)	Explanations 2 and 3 are correct

17 Roorkee



Q.37	Correctly label the speciation diagram below:
	$\begin{array}{ c c c c c c } \hline Phosphoric acid speciation diagram \\ \hline 12 \\ 1 \\ 1 \\ 0.8 \\ 0.6 \\ 0.4 \\ 0.2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
(A)	$I = PO_4^{3-}, II = HPO_4^{2-}, III = H_2PO_4^{-}, IV = H_3PO_4$
(B)	$I = H_3PO_4, II = HPO_4^{2-}, III = H_2PO_4^{-}, IV = PO_4^{3-}$
(C)	$I=H_3PO_4, II=H_2PO_4^{-}, III=HPO_4^{2-}, IV=PO_4^{3-}$
(D)	$I = PO_4^{3-}, II = H_2PO_4^{-}, III = H_3PO_4, IV = HPO_4^{2-}$

17 Roorkee



Q.38	Consider the following statements on microbial metabolism
	 (i) Utilization of carbon for cell synthesis is termed as anabolism. (ii) During catabolism, adenosine triphosphate (ATP) is converted into adenosine diphosphate (ADP).
	Choose the correct option from the following
(A)	(i) and (ii) are correct
(B)	(i) and (ii) are incorrect
(C)	(i) is correct and (ii) is incorrect
(D)	(i) is incorrect and (ii) is correct
	GATE 2025







Q.40	Consider the following statements
	 (i) Sound pressure changes with distance from the source (ii) Sound power is a property of the source (iii) Sound intensity is sound power per unit volume Choose the correct option from the following
(A)	(i), (ii), and (iii) are correct
(B)	only (i) and (ii) are correct
(C)	only (i) and (iii) are correct
(D)	only (ii) and (iii) are correct

Q.41	At a pressure of 1 atmosphere and temperature of 25 °C, 365 μ g m ⁻³ of a pollutant corresponds to mixing ratio of 139 parts per billion (ppb). The atomic weights: C - 12, H – 1, O – 16, N – 14 and S – 32. Which one of the following options most closely represents the pollutant
(A)	SO ₂
(B)	NO ₂
(C)	O_3 E Z O Z S
(D)	СО
	Roorkee



Q.42	Which option gives the best control strategies for Dioxins and Furans in the flue gas emitted from waste incineration facilities?
(A)	Avoid burning polystyrene (PS) and polyethylene (PE); ensure the furnace temperature above 1000 °C; and use a bag filter for cleaning the flue gas.
(B)	Avoid burning polyvinyl chloride (PVC); quickly cool down the flue gas through the temperature range 400 - 250 °C; and use an activated carbon treatment for the flue gas.
(C)	Avoid burning food wastes; ensure the furnace temperature above 900 ± 50 °C; and use an electrostatic precipitator (ESP) for cleaning the flue gas.
(D)	Avoid burning metal bearing waste; ensure the flue gas temperature above 1000 °C; and use a venturi scrubber for cleaning the flue gas.

Q.43	Choose the correct option(s) from the following regarding the solubility in water
(A)	Water is a polar molecule because of the asymmetric distribution of charge between the oxygen and hydrogen atoms of the water molecule.
(B)	In a water molecule, the electrons shared between oxygen and hydrogen are attracted more towards the hydrogen atom.
(C)	Non-polar compounds are highly soluble in water because of their strong interaction with water molecules.
(D)	Aromaticity and charge of molecules influence their solubility in water.
	Roorkee



Q.44	If microbial growth occurs under substrate unlimited conditions, according to Monod's kinetics, choose the correct option(s) from the following
(A)	Microbial growth follows zero order with respect to substrate concentration.
(B)	Microbial growth follows first order with respect to substrate concentration.
(C)	Specific growth rate is half of maximum specific growth rate.
(D)	Specific growth rate is almost equal to maximum specific growth rate.

Q.45	Choose the correct option(s) for removing solids from water.
(A)	chlorination
(B)	coagulation-flocculation-sedimentation followed by slow sand filtration
(C)	chlorination followed by aeration
(D)	slow sand filtration

Q.46	According to the Bio-Medical Waste Management Rules, 2016, choose the correct option(s) from the following
(A)	Bio-medical waste generated should be taken to a common bio-medical waste management facility except for rural areas where common facility is not available.
(B)	Bio-medical waste generated should not be taken out of the hospital premise as it may contain dangerous pathogenic organisms.
(C)	The red bag containing the human anatomical wastes like amputated body parts, cotton and bandages contaminated with body fluids, etc. should be treated using autoclave or hydroclave to kill the pathogenic organisms.
(D)	Increasing operational temperature of an autoclave from 121 °C (pressure 15 psi) to 149 °C (pressure 52 psi), the residence time requirement for treating bio-medical waste will be reduced by 15 minutes.



A residential family is considering two cities for relocation. The data related to pollutant exposure and associated health cost per year are given in the following figure. High (0.1 chance); health cost=10 lakhs/year Low (0.5 chance); health cost=4 lakhs/year Mild (0.4 chance); health cost=8 lakhs/year City 1 Q.47 Decision for city High (0.2 chance); health cost=8 lakhs/year City 2 Low (0.8 chance); health cost=1.5 lakhs/year The pollutant exposure is characterized in high, mild and low exposure categories with respective probability values. The difference in expected value of health cost of City1 with respect to that of City 2 is ______ lakhs/year. (rounded off to two decimal places). Q.48 The following is a system of linear equations x - 2y + z = 342x + y + z = 102x + y - 3z = 17The value of (x + y + z) is _. (rounded off to two decimal places)

0.49	$-\infty \sin 4x$
Q.+)	The value of $\int_0^\infty \frac{\sin 4x}{\pi x} dx$ is (rounded off to two decimal places)



Q.50 A tank has inflow, outflow and stirring mechanism. Initially, the tank holds 500 L of a brine solution of concentration 200 g/L. At t = 0, an inflow of another brine solution of concentration 100 g/L starts entering the tank at the rate of 15 L/minute. At the same time the outflow of thoroughly stirred mixture also takes place at the same rate so that the volume of brine in the tank remains constant. The brine concentration *C* (g/L) in the tank at any time *t* (minute) can be expressed by the following differential equation

$$\frac{dC}{dt} + 0.03 C = 3$$

The brine concentration in the tank at t = 1.5 hour is ______ g/L. (rounded off to two decimal places)













Q.54 A homogeneous isotropic confined aquifer of uniform thickness 30 m has hydraulic conductivity of 5 m/day and porosity of 0.3. There are two observation wells *X* and *Y* along a radial line from a fully penetrating pumping well at 100 m and 200 m distance, respectively. The well is pumped at a uniform rate to produce steady drawdown of 5 m at *X* and 3 m at *Y*. If a non-reactive pollutant enters at the observation well *Y*, then the time taken by the pollutant (under advection) to reach the observation well *X* is _____ days. (*rounded off to two decimal places*)



Q.56 A circular sewer pipe, having Manning's coefficient (*n*) of 0.01, is laid at a bed slope of 1:100. If it is flowing 80% full for a discharge of 2 m³/s, then its diameter is ______ m. (*rounded off to three decimal places*)

Koorke



Q.57 You conducted a batch experiment in the lab for 10 minutes to degrade a toxic compound, which follows first order kinetics. The compound degrades from 2×10^{-3} M to 2×10^{-4} M. The information from the lab experiment will be used to design a plug flow reactor in field conditions.

Given field conditions:

- Flow rate of contaminated water to be treated: 1 m³/hour
- Concentration of toxic compound in contaminated water: $5 \times 10^{-1} \text{ M}$
- Target concentration of toxic compound in treated water: 1×10^{-4} M
- Temperature is same in lab and field conditions.

The required volume of the plug flow reactor is _____ m³. (rounded off to two decimal places)

Q.58	A common effluent treatment plant with a capacity of 2 million litres per day (MLD)
	employs reverse osmosis (RO) for water reuse. The RO unit removes 95% of the
	total dissolved solids (TDS) and the water recovery rate is 70%. If the TDS
	concentration in the RO feed is 8000 parts per million (ppm), the TDS in the RO
	reject isg/L. (rounded off to one decimal place)

Q.59	A boiler burns coal at a rate of 1 kg/s. If the coal has 3% sulfur content, assuming
	that there is no sulfur in ash, SO ₂ emitted is kg/day. (<i>rounded off to nearest</i>
	integer)

117 Roorkee



Q.60 A particle dispersoid has 1510 spherical particles of uniform density. An air purifier is proposed to be used to remove these particles. The diameter specific number of particles in the dispersoid, along with the number removal efficiency of the proposed purifier is shown in the following table:

Diameter of the particle (µm)	Number of particles	Number removal efficiency (%)				
1	1000	99				
10	500	75				
100	10	10				
The overall mass removal efficiency of the proposed purifier is %. (<i>rounded off to one decimal place</i>)						

Q.61 An incandescent light bulb operated for two hours per day uses 12.2 kWh of energy per month. Burning of one kg of coal generates 2 kWh of electrical energy and releases 7 g of PM₁₀. The reduction in PM₁₀ emitted per month, if this incandescent bulb is replaced with a light emitting diode (LED) bulb which consumes 1/6th of energy, is _____ g. (*rounded off to one decimal place*)







Q.63	A solid waste of composition $C_{60}H_{135}O_{50}N_5$ is to be composted aerobically in a					
	closed vessel mechanical composting facility. Given: all ammonia generated					
	escapes the facility; air contains 23% of Oxygen by weight; 100% excess air					
	requirement for the closed vessel composting facility. The atomic weights: $C - 12$,					
	H - 1, $O - 16$, $N - 14$. The actual air required for composting is kg per					
	kg waste. (rounded off to one decimal place)					

Q.64	An industry releases three greenhouse gases (GHGs), CO2 (5 kg/day), CH4 (0.5
	kg/day), and N ₂ O (0.1 kg/day). The industry flares the CH ₄ before it is released to
	the atmosphere. The Global Warming Potential (GWP) are as follows: $CO_2 = 1$,
	$CH_4 = 21$, $N_2O = 310$. The annual GWP of GHGs released from the industry is
	kg CO ₂ equivalent. (rounded off to the nearest integer)



Q.65 Water from a hand pump located near a landfill has 1 mg/L arsenic (oral carcinogenic potency factor = 1.75 (kg-day)/mg). A person who lives nearby drinks 2 L/day water from this hand pump for 10 years. Assume body weight of 70 kg and 70 years as average life duration. Chances of this person getting excess risk of cancer is ______ ×10⁻³. (*rounded off to three decimal places*)





GRADUATE APTITUDE TEST IN ENGINEERING 2025 अभियांत्रिकी स्नातक अभिक्षमता परीक्षा २०२५



Organising Institute: INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Answer Key for Environmental Science & Engineering (ES)

Q. No.	Session	Q. Type	Section	Key/Range	Marks
1	5	MCQ	GA	A	1
2	5	MCQ	GA	В	1
3	5	MCQ	GA	С	1
4	5	MCQ	GA	А	1
5	5	MCQ	GA	С	1
6	5	MCQ	GA	В	2
7	5	MCQ	GA	В	2
8	5	MCQ	GA	А	2
9	5	MCQ	GA	С	2
10	5	MCQ	GA	А	2
11	5	MCQ	ES	С	1
12	5	MCQ	ES	А	1
13	5	MCQ	ES	В	1
14	5	MCQ	ES	С	1
15	5	MCQ	ES	С	1
16	5	MCQ	ES	D	1
17	5	MCQ	ES	А	1
18	5	MCQ	ES	В	1
19	5	MCQ	ES	С	1
20	5	MCQ	ES	С	1
21	5	MCQ	ES	С	1
22	5	MCQ	ES	В	1
23	5	MCQ	ES	D	1
24	5	MSQ	ES	A;B	1
25	5	MSQ	ES	A;C	1
26	5	MSQ	ES	A;C	1
27	5	MSQ	ES	A;B;C	1
28	5	MSQ	ES	B;C	1
29	5	MSQ	ES	A	1
30	5	MSQ	ES	C;D	1

31	5	MSQ	ES	A;C;D	1
32	5	MSQ	ES	A;D	1
33	5	MSQ	ES	A;D	1
34	5	NAT	ES	0.50 to 0.50	1
35	5	NAT	ES	5.50 to 5.60	1
36	5	MCQ	ES	D	2
37	5	MCQ	ES	С	2
38	5	MCQ	ES	С	2
39	5	MCQ	ES	A	2
40	5	MCQ	ES	В	2
41	5	MCQ	ES	A	2
42	5	MCQ	ES	В	2
43	5	MSQ	ES	A;D	2
44	5	MSQ	ES	A;D	2
45	5	MSQ	ES	B;D	2
46	5	MSQ	ES	A	2
47	5	NAT	ES	3.20 to 3.60	2
48	5	NAT	ES	61.00 to 61.00	2
49	5	NAT	ES	0.50 to 0.50	2
50	5	NAT	ES	106.50 to 107.00	2
51	5	NAT	ES	46.50 to 47.30	2
52	5	NAT	ES	15.00 to 15.00	2
53	5	NAT	ES	250.00 to 260.00	2
54	5	NAT	ES	305.00 to 320.00	2
55	5	NAT	ES	5.05 to 5.40	2
56	5	NAT	ES	0.825 to 0.875	2
57	5	NAT	ES	0.60 to 0.72	2
58	5	NAT	ES	25.6 to 25.8	2
59	5	NAT	ES	5184 to 5184	2
60	5	NAT	ES	12.5 to 13.5	2
61	5	NAT	ES	34.5 to 36.5	2
62	5	NAT	ES	16 to 16	2
63	5	NAT	ES	10.4 to 10.6	2
64	5	NAT	ES	13600 to 13700	2
65	5	NAT	ES	7.002 to 7.200	2