

Correct Option selected Wrong Option selected Correct Option Full Marks Not Answered

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Section - I MT (Civil)

Q.No: 1 CV1123	A rectangular steel beam has the following properties: <ul style="list-style-type: none">• Width, $b=200$ mm• Depth, $d=400$ mm• Yield stress of steel, $f_y = 250$ MPa The plastic moment capacity of the beam section is:
A	4000 kNm

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B	2500 kNm
C	2000 kNm
D	1000 kNm

Q.No: 2 CV1004	Determine the general solution of $y'' - 9y = 0$.	$y'' - 9y = 0$
A	$y = C_1 e^{3x} + C_2 e^{-3x}$	$y = C_1 e^{3x} + C_2 e^{-3x}$
B	$y = C_1 \sin x + C_2 \cos x$	$y = C_1 \sin x + C_2 \cos x$
C	$y = C_1 x + C_2$	$y = C_1 x + C_2$
D	$y = e^{-9x}$	$y = e^{-9x}$

Q.No: 3 CV1026	Which method is used to determine the storage capacity of a reservoir based on cumulative inflows?	संचयी प्रवाह का विश्लेषण किया जाता है
A	Soil moisture	मिट्टी की नमी
B	Water quality	पानी की गुणवत्ता
C	Hydrographs only	केवल हाइड्रोग्राफ
D	Mass curve analysis	मास वक्र विश्लेषण

Q.No: 4 CV1032	Which of the following pollutants is directly emitted into the atmosphere from its source?	निम्नलिखित
A	Smog	स्मॉग
B	Ozone	ओजोन
C	Sulphur dioxide (SO ₂)	सल्फर डाइऑक्साइड
D	PAN (Peroxyacyl nitrates)	PAN (पेरोक्सीऐसिल नाइट्रेट)

Q.No: 5 CV1030	Which contaminant in drinking water is most commonly associated with Methemoglobinemia in infants?	पीने के पानी में
A	Carbon dioxide	कार्बन डाइऑक्साइड
B	Nitrate	नाइट्रेट
C	Chloride	क्लोराइड
D	Magnesium	मैगनीशियम

Q.No: 6 CV1093	In aerial photography, the principal point on a photograph corresponds to which of the following?	हवाई फोटो
A	Intersection of fiducial marks	प्रत्ययी चि
B	Camera mounting point	कैमरा माउंटिंग
C	Geometric center of the photograph	फोटोग्राफ
D	GPS ground control point	GPS ग्राउंड

Q.No: 7 CV1035	Landfill gas generated from anaerobic decomposition of waste consists mainly of which gases?	कचरे के अ
A	Oxygen and nitrogen	ऑक्सीजन
B	Hydrogen and sulfur dioxide	हाइड्रोजन
C	Ammonia and methane	अमोनिया
D	Methane and carbon dioxide	मीथेन और

Q.No: 8 CV1040	In surveying, which fundamental principle ensures accurate plotting of large areas?	सर्वेक्षण में
A	Working from part to whole	भाग से पूरे
B	Using only angular observations	केवल कोण
C	Using only linear measurements	केवल रैखि
D	Working from whole to part	पूरे से भाग

Q.No: 9 CV1017	According to Terzaghi, the ultimate bearing capacity of soil is the	टेरज़ागी के
A	Sum of pore pressure and surcharge	छिद्र दबाव

B	Pressure at which shear failure occurs	दबाव जिस
C	Depth of foundation	नींव की ग
D	Pressure for zero settlement	शून्य निप

Q.No: 10 CV1144	An airport located at high altitude with frequent summer temperatures above standard atmosphere observes that aircraft require longer take-off distances than design values. The primary reason for increasing runway length under such conditions is:	एक हवाई तापमान ऑफ दूरी
A	Reduction in air density affecting engine thrust and lift	हवा के घन
B	Reduction in wind velocity	हवा की ग
C	Increase in aircraft weight	विमान क
D	Increase in pavement friction	फुटपाथ के

Q.No: 11 CV1106	If events A,B are independent, which condition must hold?	यदि घटन
A	$P(A \cap B) = 0$	$P(A \cap B) =$
B	$P(A \cup B) = P(A) + P(B)$	$P(A \cup B) =$
C	$P(A B) = P(A)$	$P(A B) =$
D	$P(A B) = P(B)$	$P(A B) =$

Q.No: 12 CV1126	<p>Consider the following statements</p> <p>S1. SPT N-value represents resistance of soil to penetration.</p> <p>S2. Energy correction is applied to measured N-value.</p> <p>S3. SPT is unreliable in gravels.</p> <p>S4. SPT directly measures shear strength.</p> <p>Which of the above statements about the Standard Penetration Test (SPT) are correct or most accurate?</p>	<p>निम्नलि</p> <p>S1. SPT N</p> <p>S2. मापे म</p> <p>S3. बजरी</p> <p>S4. SPT स</p>
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		मानक प्रव
A	S2 and S4 only	केवल S2
B	S2 and S3 only	केवल S2
C	S1, S2 and S3 only	केवल S1,
D	S1 and S4 only	केवल S1

Q.No: 13 CV1056	In a soil mass subjected to quicksand (boiling) condition, the effective stress becomes:	क्विकसैंड
A	Zero	शून्य
B	Equal to total stress	कुल तनाव
C	Negative	नकारात्मक
D	Maximum	अधिकतम

Q.No: 14 CV1091	In a compass traverse, local attraction is indicated when the difference between the fore bearing and back bearing of a line is:	एक कम्प के असर के
A	Magnetic dip increases	चुंबकीय डु
B	Equal to 180°	180° के ब
C	Declination changes	गिरावट मं
D	Not equal to 180°	180° के ब

Q.No: 15 CV1088	What is the primary structural failure mode of rigid (concrete) pavements under repeated traffic loading?	बार-बार य है?
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A	Rutting	रटिंग
B	Fatigue cracking	फेटिज क्रेक
C	Bleeding	ब्लिडिंग
D	Ravelling	रेवेलिंग

Q.No: 16 CV1001	If B is a 4 x 4 matrix and $\det(B) = 3$, then $\det(\text{adj}(B))$ is:	यदि B, 4
A	15	15
B	27	27
C	20	20
D	35	35

Q.No: 17 CV1075	Sludge drying beds primarily dewater sludge through which processes?	कीचड़ सुख
A	Evaporation & drainage	वाष्पीकरण
B	Aeration only	केवल वात
C	Centrifugal force	केन्द्रापसारक
D	Chemical oxidation	रासायनिक

Q.No: 18 CV1021	The momentum equation in mechanics is derived from which fundamental law?	यांत्रिकी में
A	Pascal's law	पास्कल का
B	Boyle's law	बॉयल का
C	Newton's second law	न्यूटन का

D	Hooke's law	हुक का नि
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Q.No: 19 CV1053	What is the main purpose of adding steel bars or mesh to concrete?	कंक्रीट में
A	To increase tensile strength and durability	तन्य शक्ति
B	To make concrete waterproof	कंक्रीट वा
C	To accelerate setting time	सेटिंग सम
D	To reduce the weight of concrete	कंक्रीट का

Q.No: 20 CV1024	A gradually varied flow profile in an open channel develops when:	एक खुले
A	Water level drops suddenly	जलस्तर
B	Velocity is uniform	वेग एक स
C	Flow is steady and depth changes slowly along length	प्रवाह स्थि
D	Channel is horizontal only	चैनल केव

Q.No: 21 CV1044	In geometric road design, the length of a simple circular curve depends on which parameters?	ज्यामिती
A	Deflection angle and radius	विक्षेपण व
B	Soil moisture	मिट्टी की
C	Temperature	तापमान
D	Angle of elevation	उंचाई का

Q.No: 22 CV1105	A bag contains 5 red balls and 3 green balls. Two balls are drawn without replacement. What is the probability that the second ball is green given that the first ball drawn was red?	एक बैग में प्रायिकता
A	$\frac{3}{7}$	$\frac{3}{7}$
B	$\frac{5}{8}$	$\frac{5}{8}$
C	$\frac{3}{8}$	$\frac{3}{8}$
D	$\frac{2}{8}$	$\frac{2}{8}$

Q.No: 23 CV1005	A Boundary Value Problem (BVP) is defined as a differential equation along with:	एक बाउंड्री
A	Conditions at two or more different points	दो या दो र
B	Only derivative at start	शुरुआत र
C	No condition	कोई शर्त र
D	Only slope at a single point	केवल एक

Q.No: 24 CV1059	The allowable bearing capacity of soil is generally obtained by dividing the ultimate bearing capacity by:	मिट्टी की
A	Shape factor	आकार क
B	Shear strength	कतरनी त
C	Settlement	निपटान
D	Factor of safety	सुरक्षा का

Q.No: 25 CV1061	How does hydrostatic pressure vary with depth in a fluid at rest?	हाइड्रोस्टैटिक
A	Cubic with depth	गहराई के
B	Linear with depth	गहराई के
C	Constant	स्थिर
D	Parabolic with depth	गहराई के

Q.No: 26 CV1090	According to the linear Greenshields speed-density model, maximum traffic flow occurs at what fraction of jam density?	रैखिक ग्रीन्शील्ड्स मॉडल के अनुसार, अधिकतम lalu traffic flow कब तक घनत्व पर होता है?
A	Zero density	शून्य घनत्व
B	Half of jam density	जाम घनत्व का आधा
C	Two-third jam density	दो-तिहाई जाम घनत्व
D	Jam density	जाम घनत्व

Q.No: 27 CV1065	In open channel flow, the primary effect of a hydraulic jump is:	खुले चैनल flow में, हाइड्रॉलिक जंप का प्रमुख effect क्या है?
A	Energy gain	ऊर्जा लाभ
B	Increase in velocity	वेग में वृद्धि
C	Energy loss	ऊर्जा की हानि
D	Laminar flow	लामिनार flow

Q.No: 28 CV1008	Use the Trapezoidal Rule with step size $h=1$ to approximate the integral $\int_0^1 x dx$ using the formula $\frac{h}{2}[f(0)+f(1)]$. What is the approximate value?	अभिन्न $\int_0^1 x dx$ का अनुमानित मान $\frac{h}{2}[f(0)+f(1)]$ के लिए trapezoidal rule का उपयोग करके $h=1$ के साथ क्या है?
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A	0.5	0.5
B	0.8	0.8
C	1.5	1.5
D	0.4	0.4

Q.No: 29 CV1016	What does Mohr's circle graphically represent in the study of stresses at a point?	एक बिंदु प
A	Relationship between normal stress and shear stress	सामान्य त
B	Grain size distribution	अनाज क
C	Variation of density with void ratio	शून्य अनु
D	Variation of permeability	पारगम्यत

Q.No: 30 CV1062	In boundary layer flow along a solid surface, the point where wall shear stress becomes zero just before the flow reverses is called:	एक ठोस स पहले शून्य
A	Stagnation point	ठहराव बि
B	Separation point	पृथक्करण
C	Critical point	महत्वपूर्ण
D	Vortex point	भंवर बिंदु

Q.No: 31 CV1064	In open channel flow, critical flow occurs when which dimensionless number equals 1?	खुले चैनल
A	Froude number	फ्रॉड नंबर
B	Euler number	यूलर नंबर

C	Mach number	मच नंबर
D	Reynolds number	रेनॉल्ड्स

Q.No: 32 CV1092	Which surveying instrument integrates an electronic theodolite with an Electronic Distance Measurement (EDM) device?	कौन सा स एकीकृत व
A	Dumpy level	डम्पी स्त
B	Plane table	विमान की
C	Automatic level	स्वचालित
D	Total station	कुल स्टेश

Q.No: 33 CV1042	Reciprocal levelling is primarily used when direct levelling is obstructed by_____.	पारस्परिक समतलीक
A	Sight distances are very short	दृष्टि की
B	No benchmark is available	कोई बेंचम
C	Staff is not vertical	कर्मचारी
D	Water bodies or other obstacles	जल निक

Q.No: 34 CV1119	Raw water from a river has high turbidity during monsoon but acceptable chemical quality. Pathogen removal is critical. Which treatment process combination is most appropriate?	मानसून व है। रोगजन
A	Coagulation → Sedimentation → Filtration → Disinfection	जमावट
B	Filtration → Disinfection only	निस्पंदन
C	Aeration → Sedimentation → Disinfection	वातन →

D	Sedimentation → Filtration → Disinfection	अवसादन
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Q.No: 35 CV1018	When the groundwater table rises near the foundation base, how is the effective stress in the soil affected?	जब भूजल
A	Increases	बढ़ जाती
B	Decreases	घटता है
C	Remains constant	स्थिर रहता
D	Becomes negative	नकारात्मक

Q.No: 36 CV1060	What is the effect on the ultimate bearing capacity of soil when the water table rises to the level of the footing base?	जब जल स
A	Effective stress increases	प्रभावी तन
B	Surcharge increases	अधिभार
C	Ultimate bearing capacity decreases	अंतिम अ
D	Soil becomes stronger	मिट्टी म

Q.No: 37 CV1038	The Marshall test for bituminous mixes is conducted to determine:	बिटुमिनस
A	Aggregate shape index	कुल आक
B	Stability & flow values of mix	मिश्रण की
C	Los Angeles abrasion	लॉस एंजि
D	Bitumen viscosity	बिटुमेन वि

Q.No: 38 CV1115	<p>Consider the following statements</p> <p>S1. Stress is defined as force per unit area.</p> <p>S2. Hooke's law is valid only within elastic limit.</p> <p>S3. Modulus of elasticity is the slope of stress-strain curve in plastic range.</p> <p>S4. Strain is a dimensionless quantity.</p> <p>Which of the above statements are correct?</p>	<p>निम्नलिखित</p> <p>S1. प्रतिबल</p> <p>S2. हुक क</p> <p>S3. प्रत्यास</p> <p>S4. तनाव</p> <p>उपरोक्त क</p>
A	S2 and S3 only	केवल S2
B	S1, S2 and S4 only	केवल S1,
C	S1 and S3 only	केवल S1
D	S1 and S2 only	केवल S1

Q.No: 39 CV1019	The main objective of drilling boreholes in geotechnical investigations is to :	भू-तकनी
A	Install drainage	जल निक
B	Increase groundwater level	भूजल स्त
C	Obtain soil samples and subsurface profile	मिट्टी के
D	Improve soil strength	मिट्टी की

Q.No: 40 CV1101	If A is a non-singular 3X3 matrix and $\det(A^T A) = 16$, the $\det(A)$ is equal to:	यदि A एव
A	± 12	± 12
B	± 16	± 16
C	± 4	± 4
D	± 8	± 8

Q.No: 41 CV1037	What is the primary purpose of providing superelevation (raising the outer rail) on a railway curve?	रेलवे वक्र
A	To strengthen ballast	गिट्टी को
B	To increase sleeper spacing	स्लीपर रि
C	To reduce noise levels	शोर के स्त
D	To counter the outward force on a moving train	चलती ट्रेन

Q.No: 42 CV1028	In gravity dams, which type of spillway is most commonly used for efficient flood discharge?	गुरुत्वाकर्षण जाता है?
A	Shaft spillway	शाफ्ट स्पि
B	Side channel spillway	साइड चैन
C	Ogee spillway	ओजी स्पि
D	Siphon spillway	साइफन फि

Q.No: 43 CV1047	A material obeying Hooke's law exhibits which relationship between stress and strain?	हुक के नि
A	Zero Poisson's ratio	शून्य पॉइ
B	Stress linear with strain	तनाव के
C	Constant strain for all stresses	सभी तनाव
D	Stress proportional to square of strain	तनाव के

Q.No: 44 CV1143	A highway curve satisfies stopping sight distance (SSD) but not overtaking sight distance (OSD). Traffic volume is high, but overtaking demand is low. The design is considered acceptable because:	एक राजम (OSD) को क्यों माना
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A	OSD is mandatory on all highways	सभी राज
B	OSD is required only on expressways	OSD केव
C	OSD governs vertical alignment	OSD ऊध
D	SSD is the minimum essential sight distance for safety	SSD सुरक्ष

Q.No: 45 CV1046	If a bending moment diagram of a beam is parabolic, what is the shape of the corresponding shear force diagram?	यदि एक क्या है?
A	Linear	रेखीय
B	Constant	स्थिर
C	Parabolic	परवलयि
D	Cubic	घनीय

Q.No: 46 CV1087	In rigid (concrete) pavements, temperature variations primarily induce which type of stresses?	कठोर (तो
A	Edge cracking only	केवल एज
B	Shoving	धक्का दे
C	Warping stresses	ताना तन
D	Rutting	रटिंग

Q.No: 47 CV1146	A highway pavement shows rutting during summer months under heavy traffic. The most likely deficiency in the bituminous mix is:	एक राजम मिश्रण में
A	Poor adhesion with aggregates	एग्रीगेट वे

B	Low ductility	कम लचीलपन
C	Excessive air voids	अत्यधिक वायु रिक्तिकाएँ
D	Insufficient stiffness at high temperature	उच्च ताप पर पर्याप्त कठोरता नहीं

Q.No: 48 CV1058	The most critical condition for slope stability in soils generally occurs when the soil is:	मिट्टी में सबसे अधिक संवेदनशील स्थिति कब आती है:
A	Rock slope	चट्टान ढलान
B	Dry soil	सूखी मिट्टी
C	Over-consolidated soil	अधिक सघन मिट्टी
D	Fully saturated soil	पूरी तरह से संतृप्त मिट्टी

Q.No: 49 CV1076	Constructed wetlands are primarily used for:	निर्मित आर्द्रभूमियाँ मुख्य रूप से किसके लिए उपयोग की जाती हैं:
A	Increasing dam storage	बांध भंडारण बढ़ाने के लिए
B	Flood control in reservoirs	जलाशयों में बाढ़ नियंत्रण
C	Sludge disposal	कीचड़ निपटारा
D	Nature-based sewage treatment	प्रकृति आधारित सीवेज उपचार

Q.No: 50 CV1113	Three concurrent forces act at a point. Two forces of 40 N and 60 N act at an angle of 60° . The approximate magnitude of the third force required to keep the system in equilibrium is:	तीन समवर्ती बल एक बिंदु पर कार्य करते हैं। 40 N और 60 N के बल 60° के कोण पर कार्य करते हैं। संतुलन में रखने के लिए तीसरे बल का अनुमानित परिमाण क्या है:
A	95 N	95 N
B	87 N	87 N
C	97 N	97 N

D	78 N	78 N
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Q.No: 51 CV1002	Evaluate the integral $\int_0^\pi \sin x dx$.	अभिन्न
A	0	0
B	2	2
C	1	1
D	π	π

Q.No: 52 CV1012	Projects such as residential buildings, commercial complexes, and schools are classified under	आवासीय गया है
A	Utility projects	उपयोगित
B	Transportation projects	परिवहन
C	Building construction projects	भवन निर्मा
D	Industrial projects	औद्योगि

Q.No: 53 CV1011	Which component of a concrete mix primarily governs its workability?	कंक्रीट मि
A	Cement fineness	सीमेंट फि
B	Setting time	सेटिंग टाइ
C	Aggregate grading	अग्रीगेट ग
D	Water content	वाटर कंटेंट

Q.No: 54 CV1010	In uniaxial loading, the elastic deformation of structural steel is primarily governed by:	एकअक्षीय
A	Bulk modulus	बल्क माप
B	Shear modulus	शेयर माप
C	Poisson's ratio	पॉइसन क
D	Young's modulus	यंग का म

Q.No: 55 CV1078	Pyrolysis is the thermal decomposition of organic matter in the absence of:	पायरोलि
A	Heat	हीट
B	Oxygen	ऑक्सीजन
C	Moisture	मॉइस्चर
D	Pressure	प्रेसर

Q.No: 56 CV1045	When a block is just about to slide, the friction force acting on it is called :	जब कोई
A	Zero	शून्य
B	Kinetic friction	गतिज घ
C	Viscous friction	चिपचिपा
D	Static friction (limiting)	स्थैतिक घ

Q.No: 57 CV1141	In rural households using biomass for cooking, women and children show higher respiratory illness rates. The most effective mitigation measure is:	खाना पक
		संबंधी बी

A	Increasing ventilation openings slightly	वेंटिलेशन
B	Increasing kitchen size	रसोई का
C	Installing chimneys only	केवल चिमनी
D	Switching to clean fuels like LPG or biogas	एलपीजी

Q.No: 58 CV1055	The zero-air voids line in a compaction curve is plotted between:	संघनन व
A	Void ratio and effective stress	शून्य अनु
B	Dry density and moisture content	शुष्क घन
C	Water content and plasticity index	जल साम
D	Density and grain size	घनत्व औ

Q.No: 59 CV1100	The eigen values of the matrix $A = \begin{bmatrix} 2 & 1 \\ 1 & 2 \end{bmatrix}$ are:	मैट्रिक्स
A	1, 2	1, 2
B	3, 1	3, 1
C	0, 1	0, 1
D	2, 3	2, 3

Q.No: 60 CV1036	Why is a slight cross slope (camber) provided on road pavements?	सड़क के प
A	To help rainwater flow off the surface	वर्षा जल
B	To improve signboard visibility	साइनबोर्ड
C	To allow vehicles to accelerate faster	वाहनों को

D	To reduce pavement temperature	फुटपाथ व
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Q.No: 61 CV1149	Warning signs are generally placed sufficiently in advance mainly to:	चेतावनी
A	Allow drivers adequate perception-reaction time	चालकों क
B	Enforce speed limits	गति सीम
C	Increase road capacity	सड़क की
D	Improve road aesthetics	सड़क सौंद

Q.No: 62 CV1014	The hydraulic gradient at which a soil layer loses all effective stress and quicksand condition occurs is called:	हाइड्रोलिक् उसको क
A	Total gradient	कुल ढाल
B	Capillary gradient	केशिका ढ
C	Effective gradient	प्रभावी ढा
D	Critical gradient	महत्वपूर्ण

Q.No: 63 CV1050	Which of the following gives the maximum shear stress in terms of the principal stresses σ_1 and σ_2 under plane stress condition?	निम्नलि अधिकतम
A	$(\sigma_1 - \sigma_2)/2$	$(\sigma_1 - \sigma_2)$
B	$\sigma_1 + \sigma_2$	$\sigma_1 + \sigma_2$
C	$(\sigma_1 + \sigma_2)/2$	$(\sigma_1 + \sigma_2)$
D	$\sigma_1 \sigma_2$	$\sigma_1 \sigma_2$

Q.No: 64 CV1074	In water treatment, backwashing is primarily required in which of the following units?	जल उपच
A	Slow sand filters	धीमी रेत
B	Sedimentation tanks	अवसादन
C	Aerators	वातकों
D	Rapid sand filters	तेजी से रेत

Q.No: 65 CV1080	Which air pollution control device removes SO ₂ using a limestone slurry-based wet process?	कौन सा व प्रक्रिया?
A	Wet scrubber (FGD)	वेट स्क्रबर
B	Spray dryer absorber	स्प्रे ड्रायर
C	Electrostatic precipitator	इलेक्ट्रोस्टै
D	Bag filter	बैग फिल्टर

Q.No: 66 CV1086	Which of the following is primarily used to improve load transfer across transverse joints in rigid (concrete) pavements?	निम्नलि हस्तांतरण
A	Tie bars in shoulders	टाई बरस
B	Bituminous binder	बिटुमिनस
C	Kerb stones	कर्ब स्टोन
D	Steel dowel bars	स्टील डॉव

Q.No: 67 CV1051	Which of the following is a primary requirement for industrial construction projects?	औद्योगि
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A	Specialized equipment & high-quality safety systems	विशिष्ट उपकरण
B	No schedule control	कोई शेड्यूल नियंत्रण
C	Minimal coordination	न्यूनतम समन्वय
D	High aesthetic design focus	उच्च सौंदर्य डिजाइन पर ध्यान

Q.No: 68 CV1124	A soil sample has Water content = 18%, Void ratio = 0.75, Specific gravity of solids = 2.70. Find the degree of saturation.	एक मिट्टी नमूने में पानी का सामान्य प्रतिशत = 18%, खाली अनुपात = 0.75, ठोसों की विशिष्ट गुरुत्व = 2.70. संतृप्ति की डिग्री ज्ञात करें।
A	61.8%	61.8%
B	68.8%	68.8%
C	66.8%	66.8%
D	64.8%	64.8%

Q.No: 69 CV1094	In remote sensing, radiometric resolution refers to which of the following?	रिमोट सेंसिंग में, रेडियोमेट्रिक रिजोल्यूशन का तात्पर्य निम्नलिखित में से किसके लिए है?
A	Number of spectral bands	वर्णक्रमीय बैंडों की संख्या
B	Sensitivity to brightness differences	चमक के अंतरों के प्रति संवेदनशीलता
C	Revisit time	समय पर
D	Pixel size	पिक्सेल आकार

Q.No: 70 CV1006	Fourier coefficients in a Fourier series are obtained using the:	फूरियर श्रृंखला में फूरियर गुणांक प्राप्त करने के लिए:
A	Taylor expansion	टेलर विस्तार
B	Orthogonality of sine and cosine	साइन और कोसाइन का लंबकोणता

C	Matrix inversion	मैट्रिक्स व
D	L'Hospital's rule	L'अस्पता

Q.No: 71 CV1020	Active earth pressure on a retaining wall develops when the:	एक बनाए
A	Wall moves toward the soil	दीवार मि
B	Wall is rigid and unmoving	दीवार कट
C	Wall moves away from the soil	दीवार मि
D	Water table rises	जल स्तर

Q.No: 72 CV1145	A vehicle travels at 80 km/h, Reaction time = 2.5 s Coefficient of friction = 0.35 Stopping Sight Distance(SSD) (approx.) is:	एक वाहन घर्षण गुण स्टॉपिंग र
A	105 m	105 मीटर
B	115 m	115 मीटर
C	127 m	127 मीटर
D	145 m	145 मीटर

Q.No: 73 CV1027	In irrigation engineering, duty of water is defined as:	सिंचाई इं
A	Discharge passing through canal	नहर से गु
B	Area irrigated per unit discharge	प्रति इका
C	Percolation loss	परकोलेश

D	Depth of water required by crops	फसलों के
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Q.No: 74 CV1148	A highway section experiences an hourly traffic volume of 1200 vehicles per hour, and the maximum 15-minute flow is 360 vehicles. The Peak Hour Factor (PHF) for this section is approximately:	एक राजम वाहन है।
A	1.00	1.00
B	0.83	0.83
C	0.75	0.75
D	0.90	0.90

Q.No: 75 CV1025	The continuous movement of water through the atmosphere, land, and oceans is known as :	वायुमंडल
A	Runoff cycle	रानअफ स
B	Water budget	वाटर बड्ज
C	Groundwater recharge	ग्राउंडवाटर
D	Hydrologic cycle	हाईड्रोलॉजि

Q.No: 76 CV1022	Turbulent flow in fluids is primarily characterized by:	तरल पदा
A	Random motion & eddies	रैंडम मोश
B	No velocity gradients	कोई वेग ग
C	Smooth streamlines	चिकनी स्
D	Low shear stress	कम कतर

Q.No: 77 CV1009	The force method of structural analysis, which treats forces as unknowns, is also called:	संरचनात्मक
A	Flexibility method	लचीलापन
B	Stiffness method	कठोरता
C	Displacement method	विस्थापन
D	Slope method	ढलान वि

Q.No: 78 CV1043	In GIS, what does topology primarily describe?	GIS में, टो
A	Database indexing	डेटाबेस अ
B	Rules describing spatial relationships (adjacency, connectivity)	स्थानिक
C	Image resolution	छवि संक
D	Data compression	डेटा संपीड़

Q.No: 79 CV1013	In slender columns subjected to axial compressive load, failure occurs mainly due to_____.	अक्षीय सं
A	Buckling	बकलिंग
B	Torsion	मरोड़
C	Shrinkage	संकोचन
D	Thermal expansion	थर्मल विर

Q.No: 80 CV1079	As per the Indian National Air Quality Index (NAQI), the 'Severe' category begins when AQI exceeds:	भारतीय र हो जाता है
A	400	400

B	300	300
C	100	100
D	200	200

Q.No: 81 CV1125	<p>Consider the following statements related to the Unified Soil Classification System (USCS):</p> <p>S1. If more than 50% of the soil particles pass the 0.075 mm sieve, the soil is classified as fine-grained.</p> <p>S2. For fine-grained soils, the plasticity chart (A-line) is used to distinguish between clays and silts.</p> <p>S3. Soils plotting above the A-line on the plasticity chart are classified as silts.</p> <p>S4. A soil with liquid limit less than 50% is classified as having low plasticity.</p> <p>Which of the above statements are correct?</p>	<p>एकीकृत म</p> <p>S1. यदि 5</p> <p>के रूप में</p> <p>S2. महीन</p> <p>रेखा) का</p> <p>S3. प्लासि</p> <p>S4. जिस</p> <p>किया जात</p> <p>उपरोक्त</p>
A	S1 and S3 only	केवल S1
B	S4 and S3 only	केवल S4
C	S2, S3 and S4 only	केवल S2,
D	S1, S2 and S4 only	केवल S1,

Q.No: 82 CV1081	Stopping Sight Distance always increases with:	रुकने की
A	Decrease in coefficient of friction	घर्षण के
B	Decrease in reaction time	प्रतिक्रिया
C	Decrease in gradient	ढाल में क
D	Decrease in speed	गति में क

Q.No: 83 CV1096	Vertical curves are designed as parabolic curves primarily because:	ऊर्ध्वाधर
A	They minimize earthwork	वे मिट्टी
B	Rate of change of gradient is constant	प्रवणता वे
C	They are easy to set out	उन्हें स्थाप
D	They reduce sight distance	वे दृष्टि दू

Q.No: 84 CV1063	Which force acts on a body fully immersed in a stationary fluid due to pressure distribution?	दबाव वित
A	Buoyant force	उत्प्लावक
B	Lift force	लिफ्ट बल
C	Both drag and lift	खींचें और
D	Drag force	बल खींचें

Q.No: 85 CV1031	The primary purpose of sludge digestion in wastewater treatment is to:	अपशिष्ट
A	Stabilize organic matter	जैविक पद
B	Increase BOD	BOD बढ़ा
C	Increase moisture	नमी बढ़ा
D	Produce toxic gases	जहरीली ग

Q.No: 86 CV1095	Which GIS data model is most commonly used to represent continuous surface data such as elevation?	किस GIS किया जा
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A	Network	नेटवर्क
B	Attribute table	एट्रिब्यूट
C	Vector	वेक्टर
D	Raster	रैस्टर

Q.No: 87 CV1041	In levelling, how is the reduced level of a point determined using the Height of Instrument method?	समतलीक जाता है?
A	Subtracting Fore Sight from Height of Instrument	उपकरण
B	Subtracting Back Sight from Height of Instrument	उपकरण
C	Adding Fore Sight to Height of Instrument	उपकरण
D	Adding Intermediate Sight to Reduced Level	मध्यवर्ती

Q.No: 88 CV1033	Flue-gas desulphurization (FGD) is primarily used to control emissions of which pollutant?	फ्ल्यू-गैस लिए किय
A	O ₃	O ₃
B	SO ₂	SO ₂
C	NO _x	NO _x
D	CO	CO

Q.No: 89 CV1054	The most common governing mode of failure of bolted steel tension members among the following is ____	निम्नलि
A	Block shear failure	ब्लॉक क
B	Tension yielding	तनाव पैद

C	Crushing	कुचल
D	Local buckling	स्थानीय

Q.No: 90 CV1029	Dissolved oxygen (DO) in water is essential primarily for _____	पानी में घु
A	Aquatic life survival	जलीय जी
B	Hardness removal	कठोरता ह
C	Algae growth	शैवाल की
D	Coagulation	जमावट

Q.No: 91 CV1034	In the waste minimization strategy, the "3 R's" include Reduce, Reuse, and _____.	अपशिष्ट
A	Recycle	पुनर्चक्रण
B	Regenerate	पुनः उत्प
C	Remove	निकालना
D	Redistribute	पुनर्वितरण

Q.No: 92 CV1003	If $z = x^2 + y^2$ and $x = 2t, y = t^2$, then $\frac{dz}{dt}$ is	यदि $z = x$
A	$3t^3 + t^5$	$3t^3 + t^5$
B	$8t + 4t^3$	$8t + 4t^3$
C	$2t^3 + 5t^5$	$2t^3 + 5t^5$
D	$4t^4 + 6t^3$	$4t^4 + 6t^3$

Q.No: 93 CV1015	Consolidation in saturated soils refers to the process of _____ under sustained load.	संतृप्त मि
A	Compression due to expulsion of air	हवा के नि
B	Volume change under constant water content	निरंतर पा
C	Increase in permeability under load	भार के त
D	Volume decrease due to expulsion of water from voids	रिक्तियों

Q.No: 94 CV1023	Which instrument is commonly used to measure the discharge of water in an open channel?	खुले चैनल
A	Pressure gauge	प्रेसर गोज
B	Weir	वीयर
C	U-tube	U-ट्यूब
D	Manometer	मेनोमीटर

Q.No: 95 CV1107	Evaluate $\int x^3 dx$ using Simpson's 1/3 rule with n=2.	n=2 के स
A	7	7
B	4	4
C	2	2
D	6	6

Q.No: 96 CV1007	For $u(x,y)=e^{-x} \sin y$, evaluate $u_{xx}+u_{yy}$.	$u(x,y)=e^{-x}$
A	0	0
B	-2	-2

C	1	1
D	2	2

Q.No: 97 CV1057	In geotechnical earthquake engineering, the pseudo-static method is used to compute:	भू-तकनीक
A	Capillarity	केशिका
B	Flow net	प्रवाह जात
C	Earth pressure during earthquake	भूकंप के त
D	Settlement of foundations	नींव का वि

Q.No: 98 CV1089	In traffic engineering, the Peak Hour Factor (PHF) is defined as :	ट्रैफिक इंज
A	Ratio of peak flow to average flow	औसत प्रव
B	Volume in the peak 15 minutes	चरम 15 म
C	Product of speed and density	गति और
D	Ratio of hourly volume to peak 15-min volume	प्रति घंटा

Q.No: 99 CV1071	Which parameter is primarily used to indicate the level of organic pollution in water?	किस पैराम है?
A	Hardness	कठोरता
B	BOD	BOD
C	Chlorides	क्लोराइड
D	TDS	TDS

Q.No: 100 CV1077	The primary purpose of sanitary landfill liners is to prevent:	सैनिटरी
A	Odour nuisance	गंध उपद्र
B	Methane escape	मीथेन प
C	Leachate contamination of groundwater	भूजल क
D	Traffic issues	यातायात

Section - II (General Aptitude)

Q.No: 101 GA1074	What is the cube root of 5832?	5832 का
A	19	19
B	17	17
C	16	16
D	18	18

Q.No: 102 GA1062	What is the square root of 729?	729 का व
A	7	7
B	37	37
C	27	27
D	17	17

Q.No: 103 GA1063	Find the Highest Common Factor (HCF) of 13, 26 and 104.	13, 26 3
A	22	22

B	13	13
C	10	10
D	26	26

Q.No: 104 GA1077	The marked price of a watch is Rs. 5410. It is sold for Rs. 5000 after allowing a discount. What is the discount percentage?	एक घड़ी का क्या है?
A	8.69%	8.69%
B	6.33%	6.33%
C	5.55%	5.55%
D	7.57%	7.57%

Q.No: 105 GA1065	Compute the compound interest when the principal amount is Rs.100,the rate of interest is 20% per annum compounded half-yearly and the time period is 1.5 years.	जब मूलधन का समयवर्षा
A	Rs. 60.4	60.4 रुपया
B	Rs. 44.5	44.5 रुपया
C	Rs. 27.3	27.3 रुपया
D	Rs. 33.1	33.1 रुपया

Q.No: 106 GA1064	Find the Least Common Multiple (LCM) of 18, 78 and 90.	18, 78 3
A	120	120
B	90	90
C	1170	1170
D	1200	1200

Q.No: 107 GA1066	In a box, there are 7 red balls, 8 blue balls and 6 green balls. One ball is picked up randomly. What is the probability of getting green ball?	एक डिब्बे में 7 लाल गेंदें, 8 नीले गेंदें और 6 हरी गेंदें हैं। एक गेंद यादृच्छिक रूप से चुनी जाती है। हरी गेंद मिलने की संभावना क्या है?
A	1/3	1/3
B	2/7	2/7
C	3/8	3/8
D	1/6	1/6

Q.No: 108 GA1078	If the average of four consecutive odd numbers is 14, what is the smallest number among them?	यदि चार लगातार विषम संख्याओं का औसत 14 है, तो उनमें से सबसे छोटी संख्या क्या है?
A	21	21
B	19	19
C	11	11
D	15	15

Q.No: 109 GA1071	Kavana deposited Rs. 16,700 in a bank which pays interest at a rate of 25% per annum. What will be the simple interest earned by Kavana after 4 years?	कवना ने 16,700 रुपये एक बैंक में जमा किए हैं जो वार्षिक 25% की दर पर ब्याज देता है। 4 वर्षों के बाद कवना को कितना साधारण ब्याज मिलेगा?
A	Rs. 16,400	16,400 ₹
B	Rs. 16,500	16,500 ₹
C	Rs. 17,100	17,100 ₹
D	Rs. 16,700	16,700 ₹

Q.No: 110 GA1075	Find the Least Common multiple (LCM) of $3^1 \times 6^1$, $3^2 \times 6^2$ and $3^3 \times 6^2$.	$3^1 \times 6^1$, $3^2 \times 6^2$ और $3^3 \times 6^2$ का न्यूनतम समांतर गुणक (LCM) ज्ञात करें।
A	326	326

B	488	488
C	972	972
D	820	820

Q.No: 111 GA1069	Evaluate: $(10 + 200 + 28) - (150 \div 5)$	$(10 + 200 + 28) - (150 \div 5)$
A	233	233
B	211	211
C	225	225
D	208	208

Q.No: 112 GA1080	Evaluate: $4236 + 52 - 66 \div 3$	मूल्यांकन
A	4237	4237
B	4247	4247
C	4266	4266
D	4289	4289

Q.No: 113 GA1070	A book was bought for Rs. 50 and sold for Rs. 76. What is the profit percentage?	एक कित
A	41%	41%
B	34%	34%
C	45%	45%
D	52%	52%

Q.No: 114 GA1068	If the ratio of A:B = 2:3 and A = 12, then what is the value of B?	यदि A:B
A	2	2
B	18	18
C	14	14
D	8	8

Q.No: 115 GA1073	Which number is the square root of 10201?	10201 का
A	121	121
B	111	111
C	131	131
D	101	101

Q.No: 116 GA1072	Find the Highest Common Factor (HCF) of 101, 123 and 151.	101, 123
A	51	51
B	11	11
C	1	1
D	101	101

Q.No: 117 GA1079	R, S and T enter into a partnership, investing Rs. 8000. S invests Rs. 3000 and R and T invests in the ratio of 2:3 respectively. Find the profit of S, when the annual profit is Rs. 4000.	R, S और T का है और R T का रुपये हो।
A	Rs. 1000	1000 रुप
B	Rs. 1800	1800 रुप

C	Rs. 1500	1500 रुप
D	Rs. 2100	2100 रुप

Q.No: 118 GA1061	Find the simple interest when the principal amount is Rs. 2600, the rate of interest is 4% per annum and the time period is 3 years.	जब मूलध कीजिए।
A	Rs. 246	246 रुपयें
B	Rs. 178	178 रुपयें
C	Rs. 312	312 रुपयें
D	Rs. 435	435 रुपयें

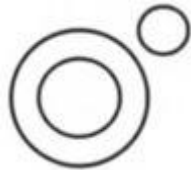



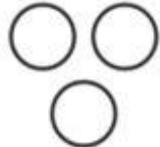



Q.No: 119 GA1076	A toy was bought for Rs. 2510 and sold for Rs. 1590. What was the loss percentage?	एक खिल
A	38.69%	38.69%
B	22.33%	22.33%
C	35.5%	35.5%
D	36.65%	36.65%

Q.No: 120 GA1067	What is the cube of 44?	44 का घ
A	85184	85184
B	89294	89294
C	85199	85199
D	88016	88016

Q.No: 121 GA1053	In a certain language, if 'TORTOISE' is coded as 'VQTVQKUG', then how is the word 'ELEPHANT' coded in that language?	अगर कि को कैसे व
A	GNGRJCVP	GNGRJC
B	GNGJRCVP	GNGJRC
C	JRGNGCVP	JRGNGC
D	GNGRJCPV	GNGRJC

Q.No: 122 GA1055	Observe the following images. Three of them are similar based on a common pattern. Choose the image that is different.	निम्नलि हैं। वह छ
A	C	C
B	D	D
C	A	A
D	B	B

Q.No: 123 GA1046	Study following arrangement and answer the question. 4 5 7 # 6 % 7) 9 1 @ 7 ' ; 7 \ 7 4 1 6 & 7 \$ In the above arrangement how many times the number 7 is repeated?	निम्नलि 4 5 7 # 6 उपरोक्त
A	5	5
B	4	4
C	3	3
D	6	6

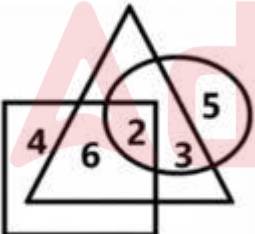
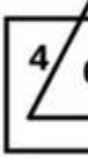
Q.No: 124 GA1060	Which of the following Venn diagrams best represents the relationship between Vegetables, Radish and Onion?	निम्नलि से दर्शाता
A		
B		
C		
D		

Q.No: 125 GA1058	Study the following arrangement and answer the question: A \$ Y R T # & B E K L U T D # H Y How many Vowels of an English alphabet are there in the above arrangement?	निम्नलि A \$ Y R T इस व्यव
A	3	3
B	5	5
C	4	4
D	2	2

Q.No: 126 GA1049	A man walks 3 km towards the North. Then he turns to his right and walks 6 km. He again turns to his left and walks 3 km. Then he turns to his right and walks 2 km. What is the shortest distance from the starting point?	एक आद वह फिर किमी च
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A	15 km	15 किमी
B	13 km	13 किमी
C	10 km	10 किमी
D	14 km	14 किमी

Q.No: 127 GA1050	If M stands for '+', N stands for '-', O stands for 'x' and P stands for '÷', then what will be the value of '76 P 2 M 6 O 4 N 9'?	अगर M N 9' का
A	56	56
B	53	53
C	55	55
D	10	10

Q.No: 128 GA1052	<p>In the given Venn diagram, circle represents Engineers, triangle represents Environmentalists and square represents Legal experts.</p>  <p>Which number represents Environmentalists are both Engineers and Legal experts?</p>	दिए गए है।  वह कौन
A	8	8
B	7	7
C	6	6
D	2	2

Q.No: 129 GA1051	In a class, Ramya ranked 61 st from the top and 24 th from the bottom. Find the total number of students in the class.	एक कक्षा कीजिए।
A	85	85
B	88	88
C	86	86
D	84	84

Q.No: 130 GA1059	In a queue of boys, A is 26 th from the backward and 46 th from the front. Find the total number of boys in the queue.	लड़कों की जात की
A	80	80
B	71	71
C	78	78
D	70	70

Q.No: 131 GA1056	In a certain code language, 'REPUBLIC' is coded as '130'. How is the word 'CULCUTTA' coded in the same code language?	एक विशिष्ट 'CULCUTTA'
A	112	112
B	115	115
C	120	120
D	118	118

Q.No: 132 GA1057	There are Five boys namely P, Q, R, S and T are standing in a row. P is standing to the immediate right of Q. T is to the immediate left of Q and to the right of R. P is to the left of S. Then who is standing second from the left end?	एक पंक्ति ठीक बाईं खड़ा है?
A	T	T

B	Q	Q
C	S	S
D	P	P

Q.No: 133 GA1047	Find the missing number in the following series: 2, 5, ____, 17, 26, 37.	निम्नलि 2, 5, ____
A	3	3
B	10	10
C	7	7
D	9	9

Q.No: 134 GA1054	Which flower is referred as the National flower of India if the following substitutions are made? <ul style="list-style-type: none"> 'Hibiscus' is called 'Poppy' 'Poppy' is called 'Lily' 'Lily' is called 'Lotus' 'Lotus' is called 'Sunflower'. 	अगर ये र <ul style="list-style-type: none"> 'हिबिस 'पॉपी' 'लिली' 'लोटस'
A	Lily	लिली
B	Rose	रोज़
C	Sunflower	सन्फलाउ
D	Poppy	पॉपी

Q.No: 135 GA1048	In a certain language, if 'CARD' is coded as 'DCAR', then how is 'NOPE' coded in that language?	अगर कि जाएगा?
A	PMNO	PMNO
B	ENOP	ENOP

C	MLNO	MLNO
D	PNOP	PNOP

Q.No: 136 GA1012	Choose the correct meaning of the given idiom/phrase from the options. "Dead in the water"
A	You are not very good at something. You could definitely not do it professionally
B	Being Inquisitive can lead you into an unpleasant or dangerous situation
C	Plan or project that has ceased/failed to function and is not expected to re-activate
D	Don't make plans for something that might not happen

Q.No: 137 GA1014	Convert the following sentence to Passive Voice: Rita is learning Bharatanatyam this year.
A	Bharatanatyam was being learnt by Rita this year.
B	Bharatanatyam is being learnt by Rita this year.
C	Rita learnt Bharatanatyam this year.
D	Bharatanatyam is yet to be learnt by Rita this year.

Q.No: 138 GA1007	Which sentence is in the past continuous tense?
A	My parents arrived yesterday.
B	My parents will finish soon.
C	The children were playing in the garden.
D	My parents are playing now.

Q.No: 139 GA1009	Choose the correct spelling that complete the sentence meaningfully. He was immediately released from his _____.
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A	Confenement
B	Confainement
C	Confinement
D	Confinment

Q.No: 140 GA1002	Fill in the blank with the correct option. Pramila is _____ principal of this school.
A	a
B	an
C	the
D	No Article Required

Q.No: 141 GA1015	Which of the following is the Antonym of the word "Visible"?
A	Clear
B	Bright
C	Apparent
D	Hidden

Q.No: 142 GA1011	Complete the sentence using the correct preposition: Let's put that work _____ the agenda for next week.
A	on
B	at
C	of
D	for

Q.No: 143 GA1006	Convert the following sentence to Indirect Speech. He said, "I have arrived."
A	He said that he has been arrived.
B	He said that he had arrived.
C	He asked that he had arrived.
D	He informed that he has arrived.

Q.No: 144 GA1010	Identify the proper noun in the sentence. Shravani and her friends are lying on the ground.
A	Shravani
B	Her
C	Ground
D	Lying

Q.No: 145 GA1003	Which of the following is a proper noun?
A	Company
B	River
C	France
D	Animal

Q.No: 146 GA1008	Choose the correct part of speech for the underlined word in the sentence given below. The movie starts <u>in</u> one hour.
A	Pronoun
B	Noun
C	Verb

D	Preposition
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Q.No: 147
GA1004 Complete the sentence using the correct preposition:
The fruits were distributed _____ the children.

A **in**

B **of**

C among

D **at**

Q.No: 148
GA1001 What is the synonym of the word "Amazing"?

A **Wrathful**

B **Initiate**

C **Courageous**

D Incredible

Q.No: 149
GA1005 Choose the correct Part of speech for the underlined word.
Ashoka was a wise King.

A **Preposition**

B Pronoun

C Noun

D **Adverb**

Q.No: 150
GA1013 Pragma is drinking the milk. Here, "milk" is a/an-

A **Countable noun**

B	Proper Noun
C	Collective Noun
D	Uncountable Noun





