



COAL INDIA LIMITED
(A Govt. of India Undertaking)
(A Maharatna Company)

Recruitment of Management Trainees through Computer Based Test (CBT-26)

Participant ID	
Participant Name	
Test Center Name	Bihar Digital World Walmi
Test Date	24/08/2026
Test Time	9:00 AM - 12:00 PM
Subject	Civil

Section : **Part 1 General Knowledge Awareness**

Q.1	Which major structural reform was introduced under the New Industrial Policy of 1991 to enhance competitiveness in India's industrial sector?
Ans	☐ A. Introduction of minimum support price
	☐ B. Fourteen major private banks were nationalized
	☒ C. Abolition of industrial licensing for most industries
	☐ D. Introduction of cooperative farming for industrial enterprises

Question ID :	4410092215678
Option 1 ID :	4410098718852
Option 2 ID :	4410098718853
Option 3 ID :	4410098718850
Option 4 ID :	4410098718851
Status :	Answered
Chosen Option :	C

Q.2	The movement in which bands of Sanyasis and Fakirs adopted guerrilla tactics, attacked the grain stocks of the rich and government treasuries, and established an independent government in Bogra and Mymensing is known by which name?
Ans	✔ A. Sanyasi Rebellion
	✖ B. Kol Uprising
	✖ C. Santhal Rebellion
	✖ D. Paika Rebellion

Question ID :	4410092215634
Option 1 ID :	4410098718674
Option 2 ID :	4410098718676
Option 3 ID :	4410098718675
Option 4 ID :	4410098718677
Status :	Answered
Chosen Option :	C

Q.3	Which pair of subjects falls under the Union List of the Seventh Schedule, on which only Parliament can legislate?
Ans	✖ A. Agriculture and Irrigation
	✖ B. Police and Public Order
	✖ C. Local Government and Health
	✔ D. Defence and Foreign Affairs

Question ID :	4410092339445
Option 1 ID :	4410099199878
Option 2 ID :	4410099199877
Option 3 ID :	4410099199879
Option 4 ID :	4410099199876
Status :	Answered
Chosen Option :	C

Q.4	In May 2026, Ms. N. Rajam was conferred the Padma Vibhushan award for her outstanding contribution to which of the following field?
Ans	✖ A. Public Affairs
	✖ B. Literature and Education
	✔ C. Art
	✖ D. Science and Engineering

Question ID :	4410092215444
Option 1 ID :	4410098717911
Option 2 ID :	4410098717910
Option 3 ID :	4410098717913
Option 4 ID :	4410098717912
Status :	Answered
Chosen Option :	D

Q.5	In which decade was coal mining in India nationalised, bringing both coking and non-coking coal mines under government control?
Ans	✗ A. 1980s
	✗ B. 1960s
	✗ C. 1950s
	✓ D. 1970s

Question ID :	4410092215540
Option 1 ID :	4410098718301
Option 2 ID :	4410098718299
Option 3 ID :	4410098718298
Option 4 ID :	4410098718300
Status :	Answered
Chosen Option :	C

Q.6	Which boundary line, drawn in 1914 during the Simla Convention between British India and Tibet, has its validity been denied by China?
Ans	✓ A. McMahon Line
	✗ B. Line of Control
	✗ C. Radcliffe Line
	✗ D. Durand Line

Question ID :	4410092215733
Option 1 ID :	4410098719073
Option 2 ID :	4410098719070
Option 3 ID :	4410098719072
Option 4 ID :	4410098719071
Status :	Answered
Chosen Option :	A

Q.7	In March 2026, the birth of five cheetah cubs under Project Cheetah was reported from which of the following national parks?
Ans	✗ A. Gir National Park
	✗ B. Ranthambore National Park
	✗ C. Bandhavgarh National Park
	✓ D. Kuno National Park

Question ID :	4410092215454
Option 1 ID :	4410098717952
Option 2 ID :	4410098717950
Option 3 ID :	4410098717951
Option 4 ID :	4410098717953
Status :	Answered
Chosen Option :	C

Q.8	Which strait lies between the Tamil Nadu state of India and the Jaffna District of the Northern Province of Sri Lanka?
Ans	A. Strait of Malacca
	B. Palk Strait
	C. Strait of Hormuz
	D. Bering Strait

Question ID :	4410092215732
Option 1 ID :	4410098719068
Option 2 ID :	4410098719067
Option 3 ID :	4410098719066
Option 4 ID :	4410098719069
Status :	Answered
Chosen Option :	D

Q.9	The Cyber Security Capacity Building Programme, launched by the National Cadet Corps (NCC) in April 2026, was implemented in collaboration with which of the following organisations ?
Ans	A. National Institute of Electronics and Information Technology
	B. National Cyber Security Coordinator
	C. Ministry of Electronics and Information Technology
	D. Indian Cyber Crime Coordination Centre

Question ID :	4410092215441
Option 1 ID :	4410098717898
Option 2 ID :	4410098717901
Option 3 ID :	4410098717899
Option 4 ID :	4410098717900
Status :	Answered
Chosen Option :	D

Q.10	During whose regime was the Meenakshi Temple substantially expanded into its current form?
Ans	A. Raja Raja Chola
	B. Thirumalai Nayak
	C. Krishnadevaraya
	D. Akbar the Great

Question ID :	4410091601643
Option 1 ID :	4410096326173
Option 2 ID :	4410096326170
Option 3 ID :	4410096326172
Option 4 ID :	4410096326171
Status :	Answered
Chosen Option :	B

Q.11	As a direct consequence of the Revolt of 1857, the British Parliament passed the Government of India Act, 1858, transferring the administration of India from the East India Company to which authority?
Ans	A. Governor-General of India
	B. Secretary of State for India
	C. British Parliament
	D. British Crown

Question ID :	4410092215633
Option 1 ID :	4410098718673
Option 2 ID :	4410098718672
Option 3 ID :	4410098718670
Option 4 ID :	4410098718671
Status :	Answered
Chosen Option :	C

Q.12	The discovery of the structure of hemoglobin by Max Perutz in the 1950s was a landmark in molecular biology. What unique technique, not used for DNA structure, was central to this discovery?
Ans	A. Cryo-electron microscopy.
	B. Isomorphous replacement.
	C. X-ray crystallography.
	D. Nuclear magnetic resonance (NMR) spectroscopy.

Question ID :	4410092216055
Option 1 ID :	4410098720357
Option 2 ID :	4410098720356
Option 3 ID :	4410098720355
Option 4 ID :	4410098720354
Status :	Answered
Chosen Option :	C

Q.13	Which of the following is the correct meaning of the term 'accuracy' in relation to computers?
Ans	A. Computers process only one task at a time.
	B. Computers provide error-free results if input and instructions are correct.
	C. Computers can guess missing data.
	D. Computers always make intelligent decisions.

Question ID :	441009371538
Option 1 ID :	4410091452053
Option 2 ID :	4410091452054
Option 3 ID :	4410091452055
Option 4 ID :	4410091452052
Status :	Answered
Chosen Option :	B

Q.14	Which of the following is a constitutional body, unlike the other three, which are statutory bodies?
Ans	A. Vigilance Commission
	B. Human Rights Comm
	C. Election Commission
	D. Information Commission

Question ID :	4410092215564
Option 1 ID :	4410098718396
Option 2 ID :	4410098718395
Option 3 ID :	4410098718394
Option 4 ID :	4410098718397
Status :	Answered
Chosen Option :	D

Q.15	Which global organization had come into being in 1995 as the successor to the General Agreement on Tariffs and Trade (GATT)?
Ans	A. United Nations Conference on Trade and Development (UNCTAD)
	B. World Bank
	C. World Trade Organisation (WTO)
	D. International Monetary Fund (IMF)

Question ID :	4410092215679
Option 1 ID :	4410098718855
Option 2 ID :	4410098718854
Option 3 ID :	4410098718856
Option 4 ID :	4410098718857
Status :	Answered
Chosen Option :	A

Q.16	Which major port on India's eastern coast is regarded as the country's oldest operating major port, established in 1870?
Ans	A. Vizag Port
	B. Chennai Port
	C. Paradip Port
	D. Kolkata Port

Question ID :	4410092215546
Option 1 ID :	4410098718322
Option 2 ID :	4410098718324
Option 3 ID :	4410098718323
Option 4 ID :	4410098718325
Status :	Answered
Chosen Option :	D

Q.17	The 13th BRICS Urbanisation Forum, held in New Delhi in June 2026, was organised under which of the following themes?
Ans	✔ A. "Cities for People: BRICS Cooperation for Inclusive and Resilient Urban Futures" ✖ B. "Cities for Tomorrow: BRICS Cooperation for Inclusive and Sustainable Urban Progress" ✖ C. "Cities for Growth: BRICS Partnership for Sustainable and Smart Urban Development" ✖ D. "Cities for Innovation: BRICS Collaboration for Digital and Green Urban Transformation"

Question ID :	4410092215438
Option 1 ID :	4410098717889
Option 2 ID :	4410098717886
Option 3 ID :	4410098717888
Option 4 ID :	4410098717887
Status :	Answered
Chosen Option :	C

Q.18	Which institution launched the National Strategy for Artificial Intelligence in June 2018, identifying Artificial Intelligence (AI) as a transformative tool to address India's development challenges?
Ans	✖ A. Ministry of Science and Technology ✖ B. National Informatics Centre ✔ C. NITI Aayog ✖ D. Ministry of Electronics and Information Technology

Question ID :	4410092215739
Option 1 ID :	4410098719096
Option 2 ID :	4410098719097
Option 3 ID :	4410098719094
Option 4 ID :	4410098719095
Status :	Answered
Chosen Option :	A

Q.19	Under which Article of the Indian Constitution may a Governor reserve a state Bill for the President's consideration?
Ans	✖ A. Article 163 ✔ B. Article 200 ✖ C. Article 356 ✖ D. Article 213

Question ID :	4410092215562
Option 1 ID :	4410098718386
Option 2 ID :	4410098718389
Option 3 ID :	4410098718388
Option 4 ID :	4410098718387
Status :	Answered
Chosen Option :	C

Q.20	Which of the following regiment represented the Indian Army in Exercise LAMITIYE-2026?
Ans	A. Sikh Regiment
	B. Gorkha Regiment
	C. ASSAM Regiment
	D. Rajput Regiment

Question ID :	4410092215447
Option 1 ID :	4410098717925
Option 2 ID :	4410098717923
Option 3 ID :	4410098717922
Option 4 ID :	4410098717924
Status :	Answered
Chosen Option :	C

Q.21	What is the term for the continuous, predictable, directional horizontal movement of seawater driven by gravity, wind (Coriolis Effect), and differences in water density?
Ans	A. Upwellings
	B. Ocean tides
	C. Ocean currents
	D. Downwellings

Question ID :	4410092215744
Option 1 ID :	4410098719115
Option 2 ID :	4410098719117
Option 3 ID :	4410098719116
Option 4 ID :	4410098719114
Status :	Answered
Chosen Option :	C

Q.22	Which of the following pollutants is the primary cause of photochemical smog?
Ans	A. Carbon monoxide
	B. Methane
	C. Nitrogen oxides (NOx)
	D. Sulphur dioxide

Question ID :	4410091474199
Option 1 ID :	4410095824397
Option 2 ID :	4410095824398
Option 3 ID :	4410095824396
Option 4 ID :	4410095824395
Status :	Answered
Chosen Option :	C

Q.23	A company restricts access to its payroll system so only HR staff can view or change salary information. Which information protection method is being used?
Ans	☒ A. Antivirus software
	☒ B. Data backup
	☒ C. Encryption
	☒ D. Access control

Question ID :	4410091820373
Option 1 ID :	4410097176727
Option 2 ID :	4410097176726
Option 3 ID :	4410097176725
Option 4 ID :	4410097176724
Status :	Answered
Chosen Option :	C

Q.24	According to the 7th-century dramatist Vishakhadatta, the account of Chandragupta II and Ramagupta was mentioned in which drama?
Ans	☒ A. Abhijnanashakuntalam
	☒ B. Devichandraguptam
	☒ C. Mudrarakshasa
	☒ D. Malavikagnimitram

Question ID :	4410092215628
Option 1 ID :	4410098718652
Option 2 ID :	4410098718650
Option 3 ID :	4410098718651
Option 4 ID :	4410098718653
Status :	Answered
Chosen Option :	C

Q.25	Which of the following country signed a Bilateral Investment Agreement (BIA) with India that came into force in July 2026?
Ans	☒ A. Australia
	☒ B. Germany
	☒ C. Israel
	☒ D. Japan

Question ID :	4410092215431
Option 1 ID :	4410098717860
Option 2 ID :	4410098717861
Option 3 ID :	4410098717859
Option 4 ID :	4410098717858
Status :	Answered
Chosen Option :	B

Q.1	A dishonest grocer sells the groceries at an 8% loss. But the grocer uses a false weight and gains 15%. Then what weight (in grams) is used in place of 1 kg?
Ans	✖ A. 900
	✖ B. 700
	✔ C. 800
	✖ D. 850

Question ID :	4410092284346
Option 1 ID :	4410098986499
Option 2 ID :	4410098986497
Option 3 ID :	4410098986498
Option 4 ID :	4410098986500
Status :	Answered
Chosen Option :	C

Q.2	The LCM of the numbers 11, 55 and 70 is:
Ans	✖ A. 990
	✔ B. 770
	✖ C. 330
	✖ D. 1450

Question ID :	441009525262
Option 1 ID :	4410092056470
Option 2 ID :	4410092056467
Option 3 ID :	4410092056468
Option 4 ID :	4410092056469
Status :	Answered
Chosen Option :	B

Q.3	If the interest earned during the 2nd year on a certain sum is ₹1,662, and the rate of interest is 20% per annum compounded annually, then the sum is:
Ans	✖ A. ₹7,415
	✔ B. ₹6,925
	✖ C. ₹7,605
	✖ D. ₹6,205

Question ID :	441009571017
Option 1 ID :	4410092239189
Option 2 ID :	4410092239188
Option 3 ID :	4410092239190
Option 4 ID :	4410092239191
Status :	Answered
Chosen Option :	B

Q.4	A child needs to fill a sphere-shaped balloon with helium. If the balloon has a diameter of 14 inches, what is the total amount (in cu. inch) of helium required to fill three such balloons? (Use $\pi = \frac{22}{7}$)
Ans	✖ A. 2,989
	✔ B. 4,312
	✖ C. 3,234
	✖ D. 3,773

Question ID :	4410092303631
Option 1 ID :	4410099060119
Option 2 ID :	4410099060116
Option 3 ID :	4410099060117
Option 4 ID :	4410099060118
Status :	Answered
Chosen Option :	B

Q.5	If x and y be distinct prime numbers such that $x > y$ and $x^2 - y^2$
Ans	✖ A. 45
	✔ B. 9
	✖ C. 16
	✖ D. 14

Question ID :	4410092304273
Option 1 ID :	4410099062675
Option 2 ID :	4410099062672
Option 3 ID :	4410099062674
Option 4 ID :	4410099062673
Status :	Answered
Chosen Option :	B

Q.6	If A exceeds B by 75% and B is less than C by 25%, then A : C is:
Ans	✖ A. 49:25
	✔ B. 21:16
	✖ C. 9:16
	✖ D. 1:4

Question ID :	4410092285932
Option 1 ID :	4410098992845
Option 2 ID :	4410098992846
Option 3 ID :	4410098992843
Option 4 ID :	4410098992844
Status :	Answered
Chosen Option :	B

Q.7	The illumination from a source of light varies inversely as the square of the distance. A book is at a distance of 18 cm from a lamp. How much (in cm) further the book is to be removed so that it receives one-fourth as much light?
Ans	✖ A. 32
	✔ B. 18
	✖ C. 16
	✖ D. 24

Question ID :	4410092304567
Option 1 ID :	4410099063841
Option 2 ID :	4410099063842
Option 3 ID :	4410099063843
Option 4 ID :	4410099063840
Status :	Answered
Chosen Option :	B

Q.8	The average of 7 consecutive integers starting with k is x. What will be the average of 8 consecutive integers starting with k+2?
Ans	✖ A. $x + 8$
	✖ B. $\frac{5x + 7}{3}$
	✖ C. $8x + 2$
	✔ D. $\frac{2x + 5}{2}$

Question ID :	4410092282703
Option 1 ID :	4410098979962
Option 2 ID :	4410098979961
Option 3 ID :	4410098979959
Option 4 ID :	4410098979960
Status :	Answered
Chosen Option :	D

Q.9	The price of petrol per litre increases by 40%. By what percentage of its initial consumption should the new consumption be, so that the expenditure on petrol increases by only 33%?
Ans	✖ A. 94%
	✔ B. 95%
	✖ C. 98%
	✖ D. 96%

Question ID :	441009560993
Option 1 ID :	4410092199240
Option 2 ID :	4410092199239
Option 3 ID :	4410092199241
Option 4 ID :	4410092199242
Status :	Answered
Chosen Option :	C

Q.10	It was intended that ₹ 570 be divided among A, B and C in the proportion of $\frac{1}{8} : \frac{1}{8} : \frac{1}{1}$. How much does 'C' gain (in ₹) by
Ans	✖ A. 264 ✖ B. 262 ✔ C. 266 ✖ D. 268

Question ID :	441009543857
Option 1 ID :	4410092130827
Option 2 ID :	4410092130826
Option 3 ID :	4410092130824
Option 4 ID :	4410092130825
Status :	Answered
Chosen Option :	C

Q.11	If the mean of the following data is 45, find the value of X.					
	Class	20-30	30-40	40-50	50-60	60-70
	Frequency	31	23	44	25	X
Ans	 A. 49  B. 30  C. 43  D. 52					

Question ID :	441009622546
Option 1 ID :	4410092444317
Option 2 ID :	4410092444316
Option 3 ID :	4410092444319
Option 4 ID :	4410092444318
Status :	Answered
Chosen Option :	C

Q.12	If $\frac{1}{a + \frac{1}{b + \frac{1}{c + \frac{1}{4}}}} = \frac{13}{48}$; what is the value of $a + b + c$?
Ans	✖ A. 5
	✖ B. 7
	✔ C. 6
	✖ D. 3

Question ID :	4410092283331
Option 1 ID :	4410098982453
Option 2 ID :	4410098982452
Option 3 ID :	4410098982454
Option 4 ID :	4410098982451
Status :	Answered
Chosen Option :	C

Q.13	An ice cream vendor sells 7 liters of ice cream in a day. If each serving is in the shape of a hemisphere with a diameter of 6 cm, how many such complete servings can be made from the ice cream sold? (Use $\pi = 22/7$)
Ans	✔ A. 123
	✖ B. 126
	✖ C. 70
	✖ D. 150

Question ID :	4410092299969
Option 1 ID :	4410099045731
Option 2 ID :	4410099045729
Option 3 ID :	4410099045728
Option 4 ID :	4410099045730
Status :	Answered
Chosen Option :	B

Q.14	The profit made on a product is 111%. What is the loss percentage (correct to two decimal places) incurred on the sale if the figures of both cost price and selling price are interchanged?
Ans	✖ A. 53.95%
	✔ B. 52.61%
	✖ C. 54.93%
	✖ D. 49.67%

Question ID :	441009577375
Option 1 ID :	4410092264627
Option 2 ID :	4410092264626
Option 3 ID :	4410092264628
Option 4 ID :	4410092264629
Status :	Answered
Chosen Option :	D

Q.15	A student scored 80 marks in Mathematics (weightage 50%) and 70 marks in Science (weightage 50%). What is the weighted average score?
Ans	✔ A. 75
	✖ B. 70
	✖ C. 85
	✖ D. 80

Question ID :	4410091256164
Option 1 ID :	4410094957554
Option 2 ID :	4410094957553
Option 3 ID :	4410094957556
Option 4 ID :	4410094957555
Status :	Answered
Chosen Option :	A

Q.16	A company is designing a square-based storage container in the shape of a right prism. The container has a height of 13 cm, and its total surface area is 912 cm ² . What is the storage capacity (in litres) of the container?
Ans	✖ A. 2.144
	✖ B. 1.732
	✔ C. 1.872
	✖ D. 1.456

Question ID :	4410092303586
Option 1 ID :	4410099059894
Option 2 ID :	4410099059895
Option 3 ID :	4410099059893
Option 4 ID :	4410099059892
Status :	Answered
Chosen Option :	C

Q.17	A car goes from city X to Y at a speed of s km/hr, and returns at a speed of t km/hr. Then again goes to Y at a speed of u km/hr. Calculate the average speed (in km/hr) of the whole journey.	
Ans	✖ A. $\frac{stu}{tu + st + su}$ ✖ B. $\frac{stu}{s + t + u}$ ✔ C. $\frac{3stu}{tu + st + su}$ ✖ D. $\frac{s + t + u}{tu + st + su}$	
Question ID : 4410092291278 Option 1 ID : 4410099011647 Option 2 ID : 4410099011649 Option 3 ID : 4410099011646 Option 4 ID : 4410099011648 Status : Answered Chosen Option : B		
Q.18	The difference between the present ages of Anuja and Mahima is 66 years. Five years ago from now, the sum of their ages was 78 years. If Anuja is older than Mahima, find Mahima's present age (in years).	
Ans	✖ A. 14 ✖ B. 15 ✖ C. 19 ✔ D. 11	
Question ID : 4410091220106 Option 1 ID : 4410094813850 Option 2 ID : 4410094813848 Option 3 ID : 4410094813849 Option 4 ID : 4410094813847 Status : Answered Chosen Option : B		
Q.19	20% of a number is more than 20% of 520 by 230. The number is:	
Ans	✖ A. 1770 ✖ B. 1520 ✔ C. 1670 ✖ D. 1720	
Question ID : 441009520863 Option 1 ID : 4410092038874 Option 2 ID : 4410092038872 Option 3 ID : 4410092038871 Option 4 ID : 4410092038873 Status : Answered Chosen Option : B		

Q.20	Simplify: $\frac{\sqrt{28} + \sqrt{112} + \sqrt{252}}{\sqrt{63}}$
Ans	✖ A. 3 ✔ B. 4 ✖ C. $4\sqrt{7}$ ✖ D. $\frac{1}{\sqrt{3}}$

Question ID :	4410092283952
Option 1 ID :	4410098984924
Option 2 ID :	4410098984925
Option 3 ID :	4410098984923
Option 4 ID :	4410098984926
Status :	Answered
Chosen Option :	B

Q.21	Three solid metallic balls of diameter 24 cm, 32 cm and 40 cm are melted and moulded into a single ball. The surface area (in sq. cm) of the new ball is:
Ans	✖ A. 2208π ✔ B. 2304π ✖ C. 1936π ✖ D. 2116π

Question ID :	4410092300196
Option 1 ID :	4410099046631
Option 2 ID :	4410099046629
Option 3 ID :	4410099046630
Option 4 ID :	4410099046628
Status :	Answered
Chosen Option :	C

Q.22	Kaushal travelled for 13 hours 52 minutes at the speed of 30 km/h. At what speed (in km/h) should he travel to cover the same distance in 4 hours?
Ans	✖ A. 106 ✖ B. 102 ✖ C. 101 ✔ D. 104

Question ID :	441009545532
Option 1 ID :	4410092137526
Option 2 ID :	4410092137527
Option 3 ID :	4410092137525
Option 4 ID :	4410092137524
Status :	Answered
Chosen Option :	D

Q.23	A sum, when invested at 20% simple interest per annum, amounts to ₹8,160 after 3 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 years?	
Ans	✖ A. 1,020	
	✖ B. 5,160	
	✖ C. 4,080	
	✔ D. 2,040	
Question ID : 441009568333 Option 1 ID : 4410092228454 Option 2 ID : 4410092228455 Option 3 ID : 4410092228453 Option 4 ID : 4410092228452 Status : Answered Chosen Option : C		
Q.24	Find the probability that a randomly chosen number from the	
Ans	✔ A. $\frac{9}{40}$	
	✖ B. $\frac{9}{37}$	
	✖ C. $\frac{7}{39}$	
	✖ D. $\frac{7}{40}$	
Question ID : 4410091221761 Option 1 ID : 4410094820468 Option 2 ID : 4410094820470 Option 3 ID : 4410094820469 Option 4 ID : 4410094820467 Status : Answered Chosen Option : B		

Q.25	Thirty workers can complete a piece of work in 27 days. After working for 6 days, 15 more workers joined them. In how many more days will the work be completed?
Ans	✔ A. 14
	✘ B. 16
	✘ C. 15
	✘ D. 20

Question ID :	4410092291180
Option 1 ID :	4410099011264
Option 2 ID :	4410099011263
Option 3 ID :	4410099011262
Option 4 ID :	4410099011265
Status :	Not Attempted and Marked For Review
Chosen Option :	--

Section : Part 3 Reasoning

Q.1	Seven boxes, C, H, A, I, R, E and D, are kept one over the other but not necessarily in the same order. H is kept immediately above C. D is kept immediately above R. Only I is kept above A. Only two boxes are kept above H. D is not kept at third position from the bottom. How many boxes are kept between E and I?
Ans	✘ A. Four
	✘ B. One
	✔ C. Three
	✘ D. Two

Question ID :	4410091526454
Option 1 ID :	4410096028929
Option 2 ID :	4410096028926
Option 3 ID :	4410096028928
Option 4 ID :	4410096028927
Status :	Answered
Chosen Option :	C

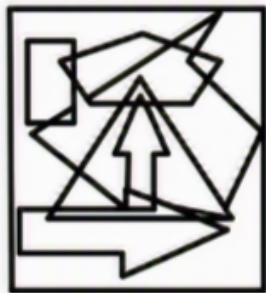
Q.2	Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1. Boldness 2. Blossom 3. Bandage 4. Barbecue 5. Blemish	
Ans	✗ A. 4, 3, 5, 2, 1	
	✗ B. 3, 5, 2, 4, 1	
	✗ C. 4, 3, 2, 1, 5	
	✓ D. 3, 4, 5, 2, 1	
Question ID : 441009189483 Option 1 ID : 441009747333 Option 2 ID : 441009747335 Option 3 ID : 441009747334 Option 4 ID : 441009747332 Status : Answered Chosen Option : D		
Q.3	Sujay starts from point A and walks a distance of 9 km towards 45° North-West. He then walks a distance of 12 km towards 45° South-West to reach point B. What is the total distance he has walked and what is the shortest distance from his start point A to his end point B?	
Ans	✗ A. 16 km, 15 km	
	✓ B. 21 km, 15 km	
	✗ C. 24 km, 16 km	
	✗ D. 21 km, 14 km	
Question ID : 4410091594227 Option 1 ID : 4410096297133 Option 2 ID : 4410096297131 Option 3 ID : 4410096297132 Option 4 ID : 4410096297130 Status : Answered Chosen Option : B		
Q.4	The mirror image of an accurate analog clock shows a time of 04:53 hrs. What is the real time shown in the clock?	
Ans	✗ A. 07:09 hrs	
	✗ B. 06:07 hrs	
	✗ C. 07:17 hrs	
	✓ D. 07:07 hrs	
Question ID : 4410092226309 Option 1 ID : 4410098760562 Option 2 ID : 4410098760561 Option 3 ID : 4410098760563 Option 4 ID : 4410098760564 Status : Answered Chosen Option : D		

Q.5 Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

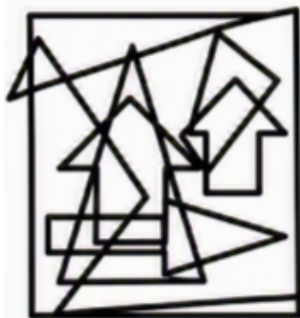


Ans

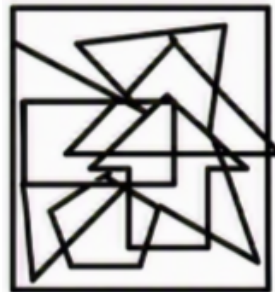
✗ A.



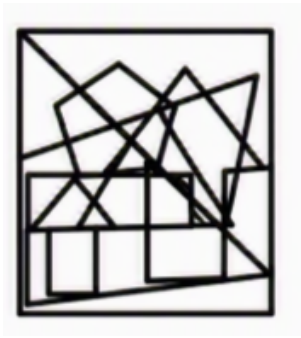
✓ B.



✗ C.



✗ D.



Question ID :	4410092228126
Option 1 ID :	4410098766828
Option 2 ID :	4410098766831
Option 3 ID :	4410098766829
Option 4 ID :	4410098766830
Status :	Answered
Chosen Option :	B

Q.6 Seven boxes, A, N, X, I, E, T and Y, are kept one over the other, but not necessarily in the same order. No box is kept above A. Only three boxes are kept between A and Y. Only one box is kept between E and T. T is kept immediately above Y. Only four boxes are kept between E and X. I is kept at some place above N. How many boxes are kept between I and N?

Ans	✗ A. Zero
	✗ B. Three
	✗ C. One
	✓ D. Two

Question ID :	441009709957
Option 1 ID :	4410092793799
Option 2 ID :	4410092793802
Option 3 ID :	4410092793800
Option 4 ID :	4410092793801
Status :	Answered
Chosen Option :	D

Q.7	If 21 August 2024 was Wednesday, then what was the day of the week on 15 September 2025?
Ans	✔ A. Monday
	✘ B. Sunday
	✘ C. Wednesday
	✘ D. Tuesday

Question ID :	441009878748
Option 1 ID :	4410093468647
Option 2 ID :	4410093468646
Option 3 ID :	4410093468645
Option 4 ID :	4410093468648
Status :	Not Attempted and Marked For Review
Chosen Option :	--

Q.8	What should come in place of '?' in the given series? 14 28 42 56 70 ?
Ans	✘ A. 82
	✘ B. 83
	✘ C. 81
	✔ D. 84

Question ID :	441009370807
Option 1 ID :	4410091449126
Option 2 ID :	4410091449127
Option 3 ID :	4410091449125
Option 4 ID :	4410091449128
Status :	Answered
Chosen Option :	D

Q.9	16 is related to 71 following a certain logic. Following the same logic, 23 is related to 99. To which of the following is 19 related to, following the same logic? (NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)
Ans	✖ A. 87
	✖ B. 85
	✖ C. 81
	✔ D. 83

Question ID :	4410092226327
Option 1 ID :	4410098760634
Option 2 ID :	4410098760633
Option 3 ID :	4410098760636
Option 4 ID :	4410098760635
Status :	Answered
Chosen Option :	D

Q.10	What should come in place of ‘?’ in the given series? 4 10 22 40 64 ?
Ans	✖ A. 91
	✖ B. 93
	✔ C. 94
	✖ D. 95

Question ID :	4410091201902
Option 1 ID :	4410094741390
Option 2 ID :	4410094741391
Option 3 ID :	4410094741392
Option 4 ID :	4410094741393
Status :	Answered
Chosen Option :	C

Q.11	Rx is the brother of Vf. Sb is the mother of Vf. Jp is the father of Rx. Ci is the wife of Vf. How is Ci related to Jp?
Ans	✖ A. Husband’s mother
	✔ B. Son’s wife
	✖ C. Brother’s wife
	✖ D. Husband’s father

Question ID :	4410092226313
Option 1 ID :	4410098760579
Option 2 ID :	4410098760578
Option 3 ID :	4410098760577
Option 4 ID :	4410098760580
Status :	Answered
Chosen Option :	D

Q.12	Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)
Ans	✖ A. AZ – EB
	✖ B. ID – MF
	✔ C. GU – LW
	✖ D. QH – UJ

Question ID :	44100910397
Option 1 ID :	44100941378
Option 2 ID :	44100941380
Option 3 ID :	44100941379
Option 4 ID :	44100941381
Status :	Not Attempted and Marked For Review
Chosen Option :	--

Q.13	RLUW is related to SJVU in a certain way based on the English alphabetical order. In the same way, OCBZ is related to PACX. To which of the following is GINQ related, following the same logic?
Ans	✖ A. HHPO
	✖ B. HGOP
	✖ C. GHOO
	✔ D. HGOO

Question ID :	441009805370
Option 1 ID :	4410093175606
Option 2 ID :	4410093175603
Option 3 ID :	4410093175604
Option 4 ID :	4410093175605
Status :	Answered
Chosen Option :	D

Q.14	Refer to the following letter, number, symbol series and answer the question. All numbers are single-digit numbers only. (Left) W @ \$ T X 2 1 \$ 7 K @ 3 J € € 4 7 O 2 £ A F (Right) If all the letters are dropped from the series, which of the following will be eighth from the left?
Ans	✖ A. @
	✖ B. 1
	✔ C. 3
	✖ D. 7

Question ID :	441009703857
Option 1 ID :	4410092769458
Option 2 ID :	4410092769461
Option 3 ID :	4410092769459
Option 4 ID :	4410092769460
Status :	Answered
Chosen Option :	A

Q.15 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

**No legs are windows.
All apples are windows.**

Conclusions

(I) : No legs are apples.

(II) : Some windows are apples.

Ans  A. Both conclusions (I) and (II) follow

X B. Only conclusion (II) follows

X c. Neither conclusion (I) nor (II) follows

X D. Only conclusion (I) follows

Question ID : 44100929076

Option 1 ID : 441009115777

Option 2 ID : **441009115775**

Option 3 ID : 441009115776

Option 4 ID : 441009115774

Status : **Answered**

Chosen Option : **A**

Q.16 In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and decide the appropriate answer.

Aq, Bt, Cx, Dj and Ek are sitting around a circular table, facing the centre. Who sits second to the right of Dj?

(i) Ek is the immediate neighbour of Aq and Cx. Bt sits second to the left of Cx.

(II) Bt sits second to the right of Ek. Cx sits second to the right of Bt.

Ans ☒ A. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

☒ B. Data in Statement II alone is sufficient to answer the question while data in statement I is not

X C. Data in statements I and II together are NOT sufficient to answer the question

✔ D. Data in Statement I alone is sufficient to answer the question while data in statement II is not

Question ID : 4410092226321

Option 1 ID : **4410098760611**Option 2 ID : **4410098760610**

Option 3 ID : 4410098760612

Option 4 ID : **4410098760609**

Status : **Answered**

Chosen Option : **D**

Q.17

Six numbers 1, 2, 3, 4, 5 and 6 are written on different faces of a dice .Two different positions of the same dice are given below. Which is the number on the face opposite the face containing 4?

6

1

4

6

2

3

Ans

✗ A. 6

✗ B. 1

✓ C. 3

✗ D. 5

Question ID :	4410092228072
Option 1 ID :	4410098766611
Option 2 ID :	4410098766608
Option 3 ID :	4410098766609
Option 4 ID :	4410098766610
Status :	Answered
Chosen Option :	D

Q.18

What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

10 - 20 ÷ 56 × 40 + 88 = ?

Ans

✓ A. -50

✗ B. -46

✗ C. -52

✗ D. -48

Question ID :	441009515667
Option 1 ID :	4410092017966
Option 2 ID :	4410092017967
Option 3 ID :	4410092017969
Option 4 ID :	4410092017968
Status :	Answered
Chosen Option :	A

Q.19	What should come in place of the question mark (?) in the given series based on the English alphabetical order? WYX TVU QSR NPO ?
Ans	✔ A. KML
	✘ B. KLM
	✘ C. JML
	✘ D. KMN

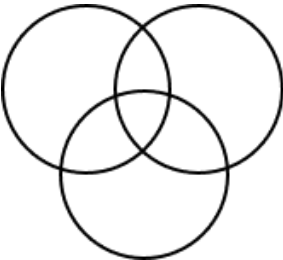
Question ID :	441009732387
Option 1 ID :	4410092883302
Option 2 ID :	4410092883300
Option 3 ID :	4410092883301
Option 4 ID :	4410092883303
Status :	Answered
Chosen Option :	A

Q.20

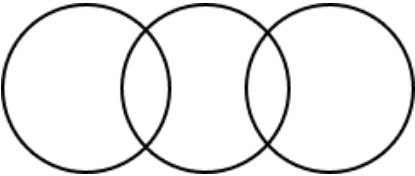
Select the Venn diagram that best illustrates the relationship between the following classes.
Felines, Canines, Carnivores

Ans

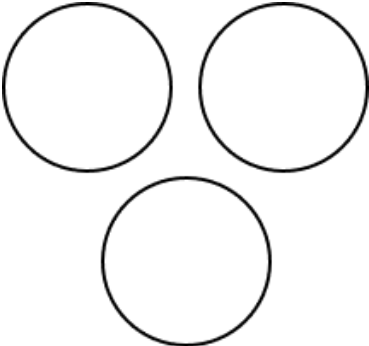
✗ A.



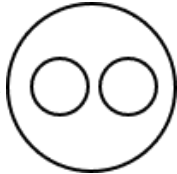
✗ B.



✗ C.



✓ D.



Question ID :	4410092226325
Option 1 ID :	4410098760627
Option 2 ID :	4410098760625
Option 3 ID :	4410098760628
Option 4 ID :	4410098760626
Status :	Answered
Chosen Option :	D

Q.21	Asha, Bina, Charu, Diya and Esha have different ages. Only one person is older than Charu. Asha is younger than Diya but older than Bina. Esha is the youngest. Who is the oldest?
Ans	✖ A. Bina
	✖ B. Asha
	✖ C. Charu
	✔ D. Diya

Question ID :	4410091699844
Option 1 ID :	4410096704911
Option 2 ID :	4410096704913
Option 3 ID :	4410096704912
Option 4 ID :	4410096704910
Status :	Answered
Chosen Option :	D

Q.22	In a certain code, 'went for walk' is coded as 'ka dp mc' 'walk after dinner' is coded as 'nh ka bz' 'after they went' is coded as 'mc px nh' (all the codes are two letter coded only) What is the possible code for 'for dinner'?
Ans	✔ A. dp bz
	✖ B. ka dp
	✖ C. nh bz
	✖ D. bz px

Question ID :	4410092226317
Option 1 ID :	4410098760595
Option 2 ID :	4410098760596
Option 3 ID :	4410098760593
Option 4 ID :	4410098760594
Status :	Answered
Chosen Option :	A

Q.23	Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only. (Left) C % U V + U U V V P / A M + N ^ ^ S C ^ @ (Right) How many such letters are there, each of which is immediately preceded by a letter and also immediately followed by a symbol?
Ans	✖ A. Two
	✖ B. Three
	✔ C. Four
	✖ D. One

Question ID :	441009782805
Option 1 ID :	4410093085224
Option 2 ID :	4410093085225
Option 3 ID :	4410093085226
Option 4 ID :	4410093085223
Status :	Not Attempted and Marked For Review
Chosen Option :	--

Q.24	In this question two statements I and II have been given. These statements may be independent causes or effects of independent causes or a common cause. One of the statements may be the effect of the other statement. Read both the statements and select the correct answer – I. A well-known food delivery company reported a huge loss last quarter. II. Multiple new competitors entered the food delivery market with aggressive pricing.
Ans	✖ A. I is the cause and II is its possible effect
	✖ B. Both I and II are effects of independent causes
	✔ C. II is the cause and I is its possible effect
	✖ D. Both I and II are independent causes

Question ID :	4410091205323
Option 1 ID :	4410094754803
Option 2 ID :	4410094754806
Option 3 ID :	4410094754804
Option 4 ID :	4410094754805
Status :	Answered
Chosen Option :	C

Q.25	P, Q, R, S, T, U and V are sitting around a circular table, facing the centre. V sits third to the left of P. S sits second to the left of R. P is an immediate neighbour of both T and S. Q is not an immediate neighbour of V. How many people sit between S and U when counted from the right of S?
Ans	✖ A. 2
	✔ B. 3
	✖ C. 1
	✖ D. 4

Question ID :	441009810681
Option 1 ID :	4410093196848
Option 2 ID :	4410093196849
Option 3 ID :	4410093196847
Option 4 ID :	4410093196850
Status :	Answered
Chosen Option :	A

Section : Part 4 General English

Q.1	Choose the correct option to complete the sentence meaningfully. Historians argue that ____ invention of the printing press was one of ____ most significant events in human history.
Ans	✔ A. the, the
	✖ B. a, a
	✖ C. the, an
	✖ D. an, the

Question ID :	441009114909
Option 1 ID :	441009457038
Option 2 ID :	441009457039
Option 3 ID :	441009457040
Option 4 ID :	441009457037
Status :	Answered
Chosen Option :	A

Q.2	Which of the following sentences is correctly written in active voice?
Ans	A. The revised edition of the novel had already been published before the translation rights were acquired. B. The manuscript was required to be revised by the author before it could be accepted by the editorial board.

C. The candidates were informed that their applications had been shortlisted after a rigorous screening process.

D. The editorial committee requested the author to revise the conclusion after the external reviewers' comments.

Question ID :	4410092220639
Option 1 ID :	4410098738225
Option 2 ID :	4410098738223
Option 3 ID :	4410098738224
Option 4 ID :	4410098738222
Status :	Answered
Chosen Option :	B

Q.3	In the following sentence, one part is grammatically incorrect. Choose the option that correctly replaces the erroneous part. The conference organizers will invite distinguished scholars from across the world who must discuss emerging trends in artificial intelligence, translation studies and comparative literature.
Ans	A. The conference organizers will invite distinguished scholars from across the world who must be discussing emerging trends into artificial intelligence, translation studies and comparative literature. B. The conference organizers will invite distinguished scholars from across the world who will discuss emerging trends in artificial intelligence, translation studies and comparative literature.

C. The conference organizers will invite distinguished scholars from across the world who should discuss emerging trends in artificial intelligence, translation studies but comparative literature.

D. The conference organizers invite distinguished scholars for across the world who must discuss emerging trends in artificial intelligence, translation studies and comparative literature.

Question ID :	4410092220629
Option 1 ID :	4410098738183
Option 2 ID :	4410098738184
Option 3 ID :	4410098738185
Option 4 ID :	4410098738182
Status :	Answered
Chosen Option :	B

Q.4	Arrange the segments to form a coherent sentence. A. as a means of communication B. throughout history C. language has evolved D. adapting to societal changes
Ans	✖ A. DBCA
	✖ B. DACB
	✔ C. CADB
	✖ D. BDAC

Question ID :	4410092220622
Option 1 ID :	4410098738156
Option 2 ID :	4410098738157
Option 3 ID :	4410098738154
Option 4 ID :	4410098738155
Status :	Answered
Chosen Option :	C

Q.5	A sentence has been divided into five word segments that are jumbled with one word segment fixed at the beginning. Arrange the segments A, B, C and D in the correct order to form a complete sentence. Fixed: In response to the recent survey A) recommended several changes B) the committee C) after detailed discussion D) to the proposal
Ans	✔ A. BCAD
	✖ B. ADBC
	✖ C. CBDA
	✖ D. DACB

Question ID :	4410092220619
Option 1 ID :	4410098738144
Option 2 ID :	4410098738142
Option 3 ID :	4410098738145
Option 4 ID :	4410098738143
Status :	Answered
Chosen Option :	A

Q.6	Select the correct one-word substitution for the underlined phrase. Sam is a/an <u>person who is new to a field or activity</u> .
Ans	✔ A. Neophyte
	✘ B. Enthusiast
	✘ C. Veteran
	✘ D. Expert

Question ID :	4410092220617
Option 1 ID :	4410098738136
Option 2 ID :	4410098738135
Option 3 ID :	4410098738134
Option 4 ID :	4410098738137
Status :	Answered
Chosen Option :	B

Q.7	Which is the correct passive voice transformation of 'The editor asked the author to revise the conclusion in light of the reviewer's comments.'?
Ans	✔ A. The author was asked by the editor to revise the conclusion in the light of the reviewer's comments.
	✘ B. The author had been asked by the editor to revise the conclusion in the light of the reviewer's comments.
	✘ C. The author has asked the editor to revise the conclusion in the light of the reviewer's comments.
	✘ D. The author will be asked by the editor to revise the conclusion in the light of the reviewer's comments.

Question ID :	4410092220638
Option 1 ID :	4410098738218
Option 2 ID :	4410098738221
Option 3 ID :	4410098738220
Option 4 ID :	4410098738219
Status :	Answered
Chosen Option :	C

Q.8	Complete the sentence with appropriate options. _____ students in the class discussed _____ implications of the new policy.
Ans	✘ A. A, an
	✘ B. The, a
	✘ C. A, the
	✔ D. The, the

Question ID :	4410091602488
Option 1 ID :	4410096329527
Option 2 ID :	4410096329529
Option 3 ID :	4410096329528
Option 4 ID :	4410096329526
Status :	Answered
Chosen Option :	D

Q.9	Choose the word that is similar in meaning to the underlined word. His refusal to apologize was <u>tantamount</u> to admitting his guilt.
Ans	☒ A. fecund
	☒ B. diatribe
	☒ C. prolific
	☒ D. analogous

Question ID :	441009293673
Option 1 ID :	4410091141562
Option 2 ID :	4410091141565
Option 3 ID :	4410091141564
Option 4 ID :	4410091141563
Status :	Answered
Chosen Option :	D

Q.10	Select the option which gives the correct meaning of the given idiom. 'Between Scylla and Charybdis'
Ans	☒ A. Caught between two equally dangerous alternatives
	☒ B. Waste effort on something that cannot be changed or revived
	☒ C. To choose between favorable and unfavorable options
	☒ D. To remove an obstacle with strong determination

Question ID :	4410092220634
Option 1 ID :	4410098738205
Option 2 ID :	4410098738202
Option 3 ID :	4410098738204
Option 4 ID :	4410098738203
Status :	Answered
Chosen Option :	B

Q.11	Complete the sentence by choosing appropriate options. To innovate effectively, leaders must ____ novel approaches and ____ risks strategically.
Ans	☒ A. dismiss, avoid
	☒ B. embrace, manage
	☒ C. ignore, exaggerate
	☒ D. embrace, avoid

Question ID :	4410091602531
Option 1 ID :	4410096329700
Option 2 ID :	4410096329701
Option 3 ID :	4410096329699
Option 4 ID :	4410096329698
Status :	Answered
Chosen Option :	B

Q.12	Choose the correct word to substitute the group of words underlined in the sentence. We went to the <u>room where dead bodies are kept</u> .
Ans	☒ A. Sanatorium
	☒ B. Laboratory
	☒ C. Mortuary
	☒ D. Dormitory

Question ID :	4410092220614
Option 1 ID :	4410098738123
Option 2 ID :	4410098738124
Option 3 ID :	4410098738122
Option 4 ID :	4410098738125
Status :	Answered
Chosen Option :	C

Q.13	Select the correct indirect speech form of the following sentence. The student said, "I have been studying since morning."
Ans	☒ A. The student said he was studying since morning.
	☒ B. The student said he has been studying since morning.
	☒ C. The student said that he had been studying since morning.
	☒ D. The student said that he would be studying since morning.

Question ID :	4410091429284
Option 1 ID :	4410095645466
Option 2 ID :	4410095645467
Option 3 ID :	4410095645468
Option 4 ID :	4410095645469
Status :	Answered
Chosen Option :	C

Q.14	Complete the sentence by choosing the most appropriate option. Despite the initial failure of her experiment, the _____ student completed the assignment with a renewed positive attitude.
Ans	☒ A. respective
	☒ B. resilient
	☒ C. industrial
	☒ D. compliant

Question ID :	4410091602509
Option 1 ID :	4410096329613
Option 2 ID :	4410096329611
Option 3 ID :	4410096329612
Option 4 ID :	4410096329610
Status :	Answered
Chosen Option :	B

Q.15	What does the idiom ‘to smell a rat’ mean?
Ans	A. To discover a hidden opportunity
	B. To sense that something is wrong or suspicious
	C. To be disgusted by something unpleasant
	D. To act in a sneaky or dishonest way

Question ID :	441009244091
Option 1 ID :	441009953207
Option 2 ID :	441009953204
Option 3 ID :	441009953205
Option 4 ID :	441009953206
Status :	Answered
Chosen Option :	A

Q.16	Select the INCORRECTLY spelt word in the given sentence. Their acquaintance evolved into meaningful companionship despite cultural differences and prejudice.
Ans	A. differences
	B. prejudice
	C. acquaintance
	D. companionship

Question ID :	4410091426638
Option 1 ID :	4410095635125
Option 2 ID :	4410095635126
Option 3 ID :	4410095635123
Option 4 ID :	4410095635124
Status :	Answered
Chosen Option :	C

Q.17	Identify the INCORRECTLY spelt word in the given sentence. Her undeniable charisma and persuasive arguments were instrumental in convinving the skeptical board members.
Ans	A. convinving
	B. skeptical
	C. persuasive
	D. undeniable

Question ID :	441009358978
Option 1 ID :	4410091401916
Option 2 ID :	4410091401917
Option 3 ID :	4410091401915
Option 4 ID :	4410091401914
Status :	Answered
Chosen Option :	B

Q.18	Complete the given sentence, choosing your answer from the options provided. Professor Chatterjee will reschedule the seminar ____ more than half the participants request a change.
Ans	☒ A. though
	☒ B. or
	☒ C. if
	☒ D. when

Question ID :	4410091647013
Option 1 ID :	4410096504316
Option 2 ID :	4410096504315
Option 3 ID :	4410096504314
Option 4 ID :	4410096504313
Status :	Answered
Chosen Option :	C

Q.19	Choose the correct indirect speech conversion of the sentence. "Where will you go after graduation?" she inquired.
Ans	☒ A. She inquired if I would go after graduation.
	☒ B. She inquires where I will go after graduation.
	☒ C. She inquired where I would go after graduation.
	☒ D. She inquired where will I go after graduation.

Question ID :	4410092220611
Option 1 ID :	4410098738110
Option 2 ID :	4410098738111
Option 3 ID :	4410098738112
Option 4 ID :	4410098738113
Status :	Answered
Chosen Option :	B

Q.20	Identify the error in the following sentence and choose the correction. Next year, I will be knowing her for ten years.
Ans	☒ A. will know
	☒ B. would be knowing
	☒ C. will have been knowing
	☒ D. will have known

Question ID :	4410091608041
Option 1 ID :	4410096351101
Option 2 ID :	4410096351100
Option 3 ID :	4410096351103
Option 4 ID :	4410096351102
Status :	Answered
Chosen Option :	D

	Comprehension:
	Read the passage and answer the following questions. All children grow up in a world of talking animals. If they don't come to know them through fairy tales, Disney movies, or the Narnia books, they discover them some other way. A child will grant the gift of speech to the family dog, or to the stray cat that shows up at the door. At first, it's a solipsistic fantasy—the secret sharer you can tell your troubles to, or that only you understand. Later, it's rooted in a more philosophical curiosity, the longing to experience the ineffable interiority of some very different being. My eight-year-old daughter says that she wishes the horses she rides could talk, just so she could ask them what it feels like to be a horse. Such a desire presumes—as Thomas Nagel put it in his 1974 essay "What Is It Like to Be a Bat?"—that animals have some kind of subjectivity, and that it might somehow be plumbed. In any case, Nagel explained, humans are "restricted to the resources" of our own minds, and since "those resources are inadequate to the task," we cannot really imagine what it is like to be a bat, only, at best, what it is like to behave like one—to fly around in the dark, gobble up insects, and so on. That inability, however, should not lead us to dismiss the idea that animals "have experiences fully comparable in richness of detail to our own." We simply can't know.

	SubQuestion No : 21
Q.21	What is the central theme of the passage?
Ans	✔ A. The human desire to understand animal consciousness despite cognitive limitations
	✘ B. The scientific classification of animal behaviour in modern biology studies
	✘ C. The role of imagination in childhood development in early cognitive growth
	✘ D. The influence of literature on children's evolving perception of animals

Question ID :	4410091866244
Option 1 ID :	4410097353276
Option 2 ID :	4410097353274
Option 3 ID :	4410097353275
Option 4 ID :	4410097353277
Status :	Answered
Chosen Option :	C

	Comprehension:
	Read the passage and answer the following questions. All children grow up in a world of talking animals. If they don't come to know them through fairy tales, Disney movies, or the Narnia books, they discover them some other way. A child will grant the gift of speech to the family dog, or to the stray cat that shows up at the door. At first, it's a solipsistic fantasy—the secret sharer you can tell your troubles to, or that only you understand. Later, it's rooted in a more philosophical curiosity, the longing to experience the ineffable interiority of some very different being. My eight-year-old daughter says that she wishes the horses she rides could talk, just so she could ask them what it feels like to be a horse. Such a desire presumes—as Thomas Nagel put it in his 1974 essay "What Is It Like to Be a Bat?"—that animals have some kind of subjectivity, and that it might somehow be plumbed. In any case, Nagel explained, humans are "restricted to the resources" of our own minds, and since "those resources are inadequate to the task," we cannot really imagine what it is like to be a bat, only, at best, what it is like to behave like one—to fly around in the dark, gobble up insects, and so on. That inability, however, should not lead us to dismiss the idea that animals "have experiences fully comparable in richness of detail to our own." We simply can't know.

	SubQuestion No : 22	
Q.22	What is the tone of the passage?	
Ans	✖ A. Satirical and critical	
	✔ B. Reflective and contemplative	
	✖ C. Detached and analytical	
	✖ D. Nostalgic and sentimental	

Question ID :	4410091866245
Option 1 ID :	4410097353278
Option 2 ID :	4410097353279
Option 3 ID :	4410097353280
Option 4 ID :	4410097353281
Status :	Answered
Chosen Option :	C

	Comprehension:
	Read the passage and answer the following questions. All children grow up in a world of talking animals. If they don't come to know them through fairy tales, Disney movies, or the Narnia books, they discover them some other way. A child will grant the gift of speech to the family dog, or to the stray cat that shows up at the door. At first, it's a solipsistic fantasy—the secret sharer you can tell your troubles to, or that only you understand. Later, it's rooted in a more philosophical curiosity, the longing to experience the ineffable interiority of some very different being. My eight-year-old daughter says that she wishes the horses she rides could talk, just so she could ask them what it feels like to be a horse. Such a desire presumes—as Thomas Nagel put it in his 1974 essay "What Is It Like to Be a Bat?"—that animals have some kind of subjectivity, and that it might somehow be plumbed. In any case, Nagel explained, humans are "restricted to the resources" of our own minds, and since "those resources are inadequate to the task," we cannot really imagine what it is like to be a bat, only, at best, what it is like to behave like one—to fly around in the dark, gobble up insects, and so on. That inability, however, should not lead us to dismiss the idea that animals "have experiences fully comparable in richness of detail to our own." We simply can't know.

	SubQuestion No : 23	
Q.23	Which of the following best represents a real-world connection implied in the passage?	
Ans	✔ A. Humans often attribute human-like qualities to animals to emotionally connect with them.	
	✘ B. Children rely exclusively on media to understand animals in contemporary digital environments.	
	✘ C. Scientific research has fully explained animal consciousness across all biological domains.	
	✘ D. Animals communicate with humans in subtle, hidden ways beyond observable behaviour patterns.	

Question ID :	4410091866246
Option 1 ID :	4410097353282
Option 2 ID :	4410097353284
Option 3 ID :	4410097353283
Option 4 ID :	4410097353285
Status :	Answered
Chosen Option :	B

	Comprehension:
	Read the passage and answer the following questions. All children grow up in a world of talking animals. If they don't come to know them through fairy tales, Disney movies, or the Narnia books, they discover them some other way. A child will grant the gift of speech to the family dog, or to the stray cat that shows up at the door. At first, it's a solipsistic fantasy—the secret sharer you can tell your troubles to, or that only you understand. Later, it's rooted in a more philosophical curiosity, the longing to experience the ineffable interiority of some very different being. My eight-year-old daughter says that she wishes the horses she rides could talk, just so she could ask them what it feels like to be a horse. Such a desire presumes—as Thomas Nagel put it in his 1974 essay "What Is It Like to Be a Bat?"—that animals have some kind of subjectivity, and that it might somehow be plumbed. In any case, Nagel explained, humans are "restricted to the resources" of our own minds, and since "those resources are inadequate to the task," we cannot really imagine what it is like to be a bat, only, at best, what it is like to behave like one—to fly around in the dark, gobble up insects, and so on. That inability, however, should not lead us to dismiss the idea that animals "have experiences fully comparable in richness of detail to our own." We simply can't know.

	SubQuestion No : 24
Q.24	What is the primary purpose of referring to Thomas Nagel's essay?
Ans	A. To argue that animals lack consciousness despite human imaginative engagement with them from childhood B. To highlight minimally the superiority of human cognition acknowledging its limits in understanding animal subjectivity

C. To dismiss philosophical curiosity about animals despite enduring questions about their inner experiences

D. To demonstrate the inherent limits of human imagination in understanding the subjective experiences of other beings

Question ID :	4410091866247
Option 1 ID :	4410097353286
Option 2 ID :	4410097353287
Option 3 ID :	4410097353288
Option 4 ID :	4410097353289
Status :	Answered
Chosen Option :	D

	Comprehension:
	Read the passage and answer the following questions. All children grow up in a world of talking animals. If they don't come to know them through fairy tales, Disney movies, or the Narnia books, they discover them some other way. A child will grant the gift of speech to the family dog, or to the stray cat that shows up at the door. At first, it's a solipsistic fantasy—the secret sharer you can tell your troubles to, or that only you understand. Later, it's rooted in a more philosophical curiosity, the longing to experience the ineffable interiority of some very different being. My eight-year-old daughter says that she wishes the horses she rides could talk, just so she could ask them what it feels like to be a horse. Such a desire presumes—as Thomas Nagel put it in his 1974 essay "What Is It Like to Be a Bat?"—that animals have some kind of subjectivity, and that it might somehow be plumbed. In any case, Nagel explained, humans are "restricted to the resources" of our own minds, and since "those resources are inadequate to the task," we cannot really imagine what it is like to be a bat, only, at best, what it is like to behave like one—to fly around in the dark, gobble up insects, and so on. That inability, however, should not lead us to dismiss the idea that animals "have experiences fully comparable in richness of detail to our own." We simply can't know.

	SubQuestion No : 25
Q.25	What message can be inferred from the passage?
Ans	A. Children's imaginative engagement with animals should be actively discouraged in early developmental stages. B. Although humans cannot fully access animal experiences, it is reasonable to believe such experiences exist. C. Animals and humans share identical cognitive abilities across all forms of perception and experience. D. Philosophical inquiries into animal consciousness are ultimately meaningless and lack intellectual significance.

Question ID :	4410091866248
Option 1 ID :	4410097353291
Option 2 ID :	4410097353290
Option 3 ID :	4410097353292
Option 4 ID :	4410097353293
Status :	Answered
Chosen Option :	B

Section : **Part 5 Domain Knowledge**

Q.1	When a reinforcing bar is bent at its end to provide anchorage, how is the anchorage value of the bend accounted for in determining the available anchorage length as per IS 456:2000?
Ans	A. Used to completely eliminate the required development length B. Added to the straight embedment length of reinforcing bar C. Added to increase the required development length D. Subtracted from the straight embedment length of reinforcing bar

Question ID :	4410092266094
Option 1 ID :	4410098914597
Option 2 ID :	4410098914595
Option 3 ID :	4410098914598
Option 4 ID :	4410098914596
Status :	Answered
Chosen Option :	B

Q.2	Which stone is known for its high compressive strength and is often used in heavy construction?
Ans	A. Soapstone
	B. Slate
	C. Granite
	D. Marble

Question ID :	4410091089170
Option 1 ID :	4410094294152
Option 2 ID :	4410094294149
Option 3 ID :	4410094294150
Option 4 ID :	4410094294151
Status :	Answered
Chosen Option :	B

Q.3	If a reinforced concrete slab is exposed to alternate wetting and drying cycles, which exposure classification should be considered when specifying the nominal cover as per IS 456:2000?
Ans	A. Minimum cover for general exposure conditions
	B. Minimum cover for severe exposure conditions
	C. Minimum cover for moderate exposure conditions
	D. Minimum cover for mild exposure conditions

Question ID :	4410092266105
Option 1 ID :	4410098914640
Option 2 ID :	4410098914641
Option 3 ID :	4410098914642
Option 4 ID :	4410098914639
Status :	Answered
Chosen Option :	B

Q.4	A circular pipe carries water with a volumetric flow rate of 0.30 m ³ /s. If the diameter is reduced by 20% without changing the discharge, what happens to the average velocity in the narrower section?
Ans	A. Average velocity increases
	B. Average velocity remains unchanged
	C. Average velocity drops by half
	D. Average velocity decreases

Question ID :	4410092266232
Option 1 ID :	4410098915145
Option 2 ID :	4410098915143
Option 3 ID :	4410098915144
Option 4 ID :	4410098915146
Status :	Answered
Chosen Option :	A

Q.5	A function that satisfies both Laplace's equation and prescribed boundary conditions is_____
Ans	☒ A. Depends on initial conditions
	☒ B. Not unique
	☒ C. Unique
	☒ D. Might have infinite solutions

Question ID :	4410091565465
Option 1 ID :	4410096183353
Option 2 ID :	4410096183352
Option 3 ID :	4410096183351
Option 4 ID :	4410096183354
Status :	Answered
Chosen Option :	C

Q.6	How does tilting a vertical plane surface submerged in a liquid affect the hydrostatic force acting on it, assuming the depth of the centroid remains unchanged?
Ans	☒ A. The hydrostatic force becomes smaller
	☒ B. The hydrostatic force remains unchanged
	☒ C. The hydrostatic force becomes greater
	☒ D. The hydrostatic force shifts sideways

Question ID :	4410092266231
Option 1 ID :	4410098915140
Option 2 ID :	4410098915141
Option 3 ID :	4410098915139
Option 4 ID :	4410098915142
Status :	Answered
Chosen Option :	B

Q.7	According to Bligh's creep theory, which aspect is crucial for calculating the length of the seepage path beneath a hydraulic structure?
Ans	☒ A. Width of the structure
	☒ B. Thickness of the floor
	☒ C. Depth at downstream end
	☒ D. Total length of the contact surface

Question ID :	4410092266214
Option 1 ID :	4410098915072
Option 2 ID :	4410098915073
Option 3 ID :	4410098915071
Option 4 ID :	4410098915074
Status :	Answered
Chosen Option :	C

Q.8	What type of flow is ideally maintained in a sedimentation tank for efficient settling?
Ans	✖ A. Turbulent
	✔ B. Laminar
	✖ C. Quiescent
	✖ D. Dispersed

Question ID :	441009944862
Option 1 ID :	4410093733020
Option 2 ID :	4410093733021
Option 3 ID :	4410093733022
Option 4 ID :	4410093733023
Status :	Answered
Chosen Option :	B

Q.9	Which function best defines the primary operational role of a railway station in a railway transportation system?
Ans	✔ A. Facilitating passenger and freight train operations
	✖ B. Supervising permanent way inspection operations
	✖ C. Coordinating rolling stock maintenance operations
	✖ D. Managing locomotive fueling and servicing operations

Question ID :	4410092266308
Option 1 ID :	4410098915447
Option 2 ID :	4410098915450
Option 3 ID :	4410098915448
Option 4 ID :	4410098915449
Status :	Answered
Chosen Option :	B

Q.10	The water budget method estimates evaporation by analysing:
Ans	✔ A. the balance between inflows, outflows and storage changes
	✖ B. the total volume of stored water
	✖ C. the pH of water bodies
	✖ D. changes in water temperature

Question ID :	44100988735
Option 1 ID :	441009352942
Option 2 ID :	441009352941
Option 3 ID :	441009352940
Option 4 ID :	441009352939
Status :	Answered
Chosen Option :	A

Q.11	The degree of a simple circular curve of radius 28.65m is _____. (use metric degree of curve for 20m arc/chord)
Ans	A. 60°
	B. 20°

Question ID :	4410091395975
Option 1 ID :	4410095513573
Option 2 ID :	4410095513575
Option 3 ID :	4410095513572
Option 4 ID :	4410095513574
Status :	Answered
Chosen Option :	C

Q.12	What does the slenderness ratio of a compression member primarily indicate?
Ans	A. The self-weight of the member
	B. Its tendency to buckle under axial load

Question ID :	4410091858580
Option 1 ID :	4410097325146
Option 2 ID :	4410097325143
Option 3 ID :	4410097325145
Option 4 ID :	4410097325144
Status :	Answered
Chosen Option :	B

Q.13	Which engineering countermeasure physically isolates a flexible highway pavement system from groundwater capillary rise in waterlogged regions?
Ans	A. Constructing capillary cutoff drainage layers
	B. Planting localized deep root vegetation

Question ID :	4410092266314
Option 1 ID :	4410098915471
Option 2 ID :	4410098915474
Option 3 ID :	4410098915473
Option 4 ID :	4410098915472
Status :	Answered
Chosen Option :	C

Q.14	In construction project management, cost control primarily aims to:
Ans	☒ A. Ensure that actual cost does not exceed the estimated cost
	☒ B. Ignore material and labor wastage
	☒ C. Increase the overall project expenditure
	☒ D. Revise the project estimate during execution

Question ID :	4410091459178
Option 1 ID :	4410095764847
Option 2 ID :	4410095764850
Option 3 ID :	4410095764848
Option 4 ID :	4410095764849
Status :	Answered
Chosen Option :	A

Q.15	When is the circular arc method most suitable for determining the length of the surface profile in open channels?
Ans	☒ A. When abrupt changes occur in channel slope
	☒ B. When the flow transitions sharply at a control section
	☒ C. When the channel experiences highly turbulent flow
	☒ D. When the water surface curve is gentle and gradually varying

Question ID :	4410092266227
Option 1 ID :	4410098915125
Option 2 ID :	4410098915126
Option 3 ID :	4410098915124
Option 4 ID :	4410098915123
Status :	Answered
Chosen Option :	D

Q.16	For an earth dam with a homogeneous foundation, if the soil permeability doubles while head and geometry remain constant, how will the total seepage discharge change?
Ans	☒ A. It will halve
	☒ B. It will remain unchanged
	☒ C. It will double
	☒ D. It will quadruple

Question ID :	4410091813859
Option 1 ID :	4410097151075
Option 2 ID :	4410097151074
Option 3 ID :	4410097151076
Option 4 ID :	4410097151077
Status :	Answered
Chosen Option :	C

Q.17	During backwashing of a rapid sand filter, why is filtered (clean) water used?
Ans	A. To lubricate the filter's mechanical parts
	B. To disinfect the filter
	C. To dilute chemicals in the filter
	D. To remove accumulated impurities from the filter media

Question ID :	4410091822013
Option 1 ID :	4410097182994
Option 2 ID :	4410097182993
Option 3 ID :	4410097182995
Option 4 ID :	4410097182992
Status :	Answered
Chosen Option :	D

Q.18	For a foundation design project requiring the most accurate stress-strain parameters for a saturated, normally consolidated clay stratum, which combination of sampling technique and sample quality is most desirable and why?
Ans	A. Standard Split-spoon sampler (SPT) with a high Recovery Ratio (>90%) to ensure full soil retention.
	B. Stationary Piston Sampler with a low Area Ratio and sharp cutting edge to minimize both wall friction and volume displacement.
	C. Stationary Piston Sampler (Shelby tube with a piston) with a high Area Ratio (>20%) to increase the sample volume.
	D. Open-drive sampler (Shelby tube) with a low Area Ratio (<10%) to minimize friction and disturbance.

Question ID :	4410091476869
Option 1 ID :	4410095834854
Option 2 ID :	4410095834853
Option 3 ID :	4410095834852
Option 4 ID :	4410095834855
Status :	Answered
Chosen Option :	A

Q.19	A pretensioned prestressed concrete beam having a rectangular section with a width of 150 mm and overall depth of 350 mm is prestressed by tendons of effective area 461 mm ² at an effective depth of 300 mm. Assuming the characteristic strength of concrete and steel as 40 and 1600 N/mm ² , estimate the ultimate flexural strength of the section using the provisions of the Indian Standard Code. Use Ultimate stress in tendon f_{ub} = 1253 N/mm ² and Neutral axis depth x_u = 234.9 mm.
Ans	✖ A. 120.5 kN-m
	✖ B. 100.8 kN-m
	✔ C. 116.3 kN-m
	✖ D. 150.2 kN-m

Question ID :	4410091849368
Option 1 ID :	4410097289654
Option 2 ID :	4410097289656
Option 3 ID :	4410097289653
Option 4 ID :	4410097289655
Status :	Answered
Chosen Option :	A

Q.20	Which baseline parameter serves as the primary environmental constraint evaluated during the site selection process for a new commercial airport?
Ans	✖ A. Proximity to hospitality accommodation centers
	✖ B. Accessibility to regional transit networks
	✔ C. Vulnerability of localized wildlife habitats
	✖ D. Allocation of commercial retail facilities

Question ID :	4410092266306
Option 1 ID :	4410098915439
Option 2 ID :	4410098915440
Option 3 ID :	4410098915442
Option 4 ID :	4410098915441
Status :	Answered
Chosen Option :	B

Q.21	The angular momentum L of a particle with respect to the origin is given by:
Ans	✔ A. $L = r \times p$
	✖ B. $L = I \times \omega$
	✖ C. $L = m \times v$
	✖ D. $L = r \times v$

Question ID :	441009257530
Option 1 ID :	4410091003952
Option 2 ID :	4410091003955
Option 3 ID :	4410091003954
Option 4 ID :	4410091003953
Status :	Answered
Chosen Option :	B

Q.22	Which substitution transforms the Cauchy's homogeneous linear differential equation $x^2y''+3xy'+2y=0$ into an equation with constant coefficients?
Ans	A. Let $x = \log(t)$ and write y as a function of t
	B. Let $x = e^t$ and set y as a function of t
	C. Let $y = xv$ and substitute for y
	D. Let $x = t^2$ and write y as a function of t

Question ID :	4410092311522
Option 1 ID :	4410099090712
Option 2 ID :	4410099090711
Option 3 ID :	4410099090709
Option 4 ID :	4410099090710
Status :	Answered
Chosen Option :	A

Q.23	In a two-span continuous beam with extreme ends fixed, how does the Moment Distribution Method handle end moments?
Ans	A. End moments are ignored
	B. End moments are independent of adjacent spans
	C. End moments are carried over to adjacent spans
	D. End moments are redistributed equally

Question ID :	441009663357
Option 1 ID :	4410092607475
Option 2 ID :	4410092607478
Option 3 ID :	4410092607476
Option 4 ID :	4410092607477
Status :	Answered
Chosen Option :	D

Q.24	If f(x) and g(x) are n-times differentiable functions at x = a, which expression correctly represents the nth derivative of their product at x = a according to Leibnitz theorem?	
Ans	✗ A. $\sum_{k=0}^n \binom{n}{k} f^{(n-k-1)}(a) g^{(k+1)}(a)$	
	✗ B. $\sum_{k=0}^n \binom{n}{k} f^{(n+k)}(a) g^{(k)}(a)$	
	✗ C. $\sum_{k=1}^n \binom{n}{k} f^{(n-k)}(a) g^{(k)}(a)$	
	✓ D. $\sum_{k=0}^n \binom{n}{k} f^{(n-k)}(a) g^{(k)}(a)$	
Question ID : 4410092311505 Option 1 ID : 4410099090643 Option 2 ID : 4410099090641 Option 3 ID : 4410099090642 Option 4 ID : 4410099090644 Status : Answered Chosen Option : A		
Q.25	Calculate water application efficiency, given 100 litre/s were delivered to the field from the canal. An area of 2 hectares was irrigated in 8 hours and the runoff loss in the field is 420 cubic meter.	
Ans	✗ A. 83.42%	
	✗ B. 84.42%	
	✓ C. 85.42%	
	✗ D. 82.42%	
Question ID : 44100974135 Option 1 ID : 441009294705 Option 2 ID : 441009294702 Option 3 ID : 441009294703 Option 4 ID : 441009294704 Status : Answered Chosen Option : B		

Q.26	When evaluating the culturable command area for a new irrigation project, which factor is most critical to exclude from its calculation?
Ans	☒ A. Cultivable wasteland
	☒ B. Temporary fallow land
	☒ C. Permanently uncultivable land
	☒ D. Seasonal crop rotation practices

Question ID :	4410092266209
Option 1 ID :	4410098915054
Option 2 ID :	4410098915053
Option 3 ID :	4410098915051
Option 4 ID :	4410098915052
Status :	Answered
Chosen Option :	B

Q.27	Which matrix form is produced during Crout's triangularization method when solving a system of linear equations?
Ans	☒ A. Upper triangular matrix with unit diagonal in the lower matrix
	☒ B. Diagonal matrix only
	☒ C. Lower triangular matrix with unit diagonal in the upper matrix
	☒ D. Symmetric matrix with all unit entries

Question ID :	4410092311499
Option 1 ID :	4410099090620
Option 2 ID :	4410099090617
Option 3 ID :	4410099090619
Option 4 ID :	4410099090618
Status :	Answered
Chosen Option :	B

Q.28	Which reduced bearing value mathematically corresponds to a surveyed line possessing a whole circle bearing of 210 degrees?
Ans	☒ A. S 30° E
	☒ B. N 30° E
	☒ C. S 30° W
	☒ D. N 60° W

Question ID :	4410092266316
Option 1 ID :	4410098915479
Option 2 ID :	4410098915482
Option 3 ID :	4410098915480
Option 4 ID :	4410098915481
Status :	Answered
Chosen Option :	C

Q.29	In a PERT analysis, an activity has an optimistic time of 5 days, a most likely time of 8 days, and a pessimistic time of 17 days. What will be the expected time and variance of this activity?
Ans	✔ A. Expected time = 9 days, Variance = 4.0 days ²
	✘ B. Expected time = 19 days, Variance = 4.0 days ²
	✘ C. Expected time = 9 days, Variance = 2.0 days ²
	✘ D. Expected time = 19 days, Variance = 2.0 days ²

Question ID :	4410091459136
Option 1 ID :	4410095764679
Option 2 ID :	4410095764680
Option 3 ID :	4410095764681
Option 4 ID :	4410095764682
Status :	Answered
Chosen Option :	C

Q.30	Which operational adjustment is most effective for preventing excessive sludge blanket accumulation in a secondary clarifier treating activated sludge?
Ans	✘ A. Increasing the mixed liquor concentration
	✘ B. Increasing the surface overflow loading rate
	✘ C. Increasing the hydraulic detention period
	✔ D. Increasing the return activated sludge rate

Question ID :	4410092266301
Option 1 ID :	4410098915422
Option 2 ID :	4410098915420
Option 3 ID :	4410098915421
Option 4 ID :	4410098915419
Status :	Answered
Chosen Option :	B

Q.31	Which laboratory method is prescribed for determining chloride concentration in drinking water samples?
Ans	✘ A. EDTA titration using Eriochrome Black T
	✘ B. Acid–base titration using methyl orange
	✔ C. Argentometric titration using silver nitrate
	✘ D. Mercurimetric titration using diphenylcarbazone

Question ID :	4410092266292
Option 1 ID :	4410098915385
Option 2 ID :	4410098915386
Option 3 ID :	4410098915383
Option 4 ID :	4410098915384
Status :	Answered
Chosen Option :	C

Q.32	A group of 16 piles, with each pile of 10 m long and 45 cm in diameter, is to be arranged in a square form in a clay soil of undrained cohesion $c = 50 \text{ kN/m}^2$. If the centre to centre spacing of the piles is 1.5 m, determine the load carried by the group of piles? Given adhesion factor = 0.9.
Ans	☒ A. 9000 kN
	☒ B. 9900 kN
	☒ C. 8000 kN
	☒ D. 1000 kN

Question ID :	441009160970
Option 1 ID :	441009637577
Option 2 ID :	441009637578
Option 3 ID :	441009637576
Option 4 ID :	441009637579
Status :	Answered
Chosen Option :	C

Q.33	In the context of roof truss design, which of the following best defines the term pitch?
Ans	☒ A. The acute angle formed between the principal rafters of a pitched roof
	☒ B. The vertical rise of the roof from the wall plate to the ridge
	☒ C. The ratio of the vertical rise to the horizontal span of the roof
	☒ D. The total horizontal span of the truss between supports

Question ID :	441009990209
Option 1 ID :	4410093913031
Option 2 ID :	4410093913032
Option 3 ID :	4410093913033
Option 4 ID :	4410093913034
Status :	Answered
Chosen Option :	B

Q.34	According to the Mohr-Coulomb failure criterion, the shear strength of a soil (τ_f) is defined as a function of _____, which is/are known as (a) soil strength parameter(s).
Ans	☒ A. water content and void ratio
	☒ B. permeability and compressibility
	☒ C. normal stress only
	☒ D. cohesion (c) and angle of internal friction (ϕ)

Question ID :	441009909390
Option 1 ID :	4410093591422
Option 2 ID :	4410093591424
Option 3 ID :	4410093591421
Option 4 ID :	4410093591423
Status :	Answered
Chosen Option :	D

Q.35	Which survey procedure minimizes instrumental errors when prolonging a straight line using a vernier theodolite?
Ans	☒ A. Averaging face left and face right observations
	☐ B. Omitting backsight during line extension
	☐ C. Observing the forward station only once
	☐ D. Measuring horizontal angles without reversal

Question ID :	4410092266326
Option 1 ID :	4410098915519
Option 2 ID :	4410098915522
Option 3 ID :	4410098915521
Option 4 ID :	4410098915520
Status :	Answered
Chosen Option :	B

Q.36	The volume of a solid bounded by the surface $z = x^2 + y^2$ and
Ans	☐ A. $\frac{9\pi}{2}$
	☐ B. 9π
	☒ C. $\frac{81\pi}{2}$
	☐ D. $\frac{27\pi}{2}$

Question ID :	4410091362477
Option 1 ID :	4410095381844
Option 2 ID :	4410095381847
Option 3 ID :	4410095381845
Option 4 ID :	4410095381846
Status :	Answered
Chosen Option :	C

Q.37	In which of the following cases is an aqueduct NOT suitable?
Ans	☐ A. When the canal has longitudinal slope
	☐ B. When the canal bed is far above the drainage bed
	☐ C. When the canal carries a large discharge
	☒ D. When the drainage carries a very high flood discharge

Question ID :	44100990353
Option 1 ID :	441009359549
Option 2 ID :	441009359547
Option 3 ID :	441009359546
Option 4 ID :	441009359548
Status :	Answered
Chosen Option :	B

Q.38	Which combination of conditions is most likely to cause excessive long-term deflection in a reinforced concrete beam despite acceptable initial deflection?
Ans	A. High sustained loading with low creep concrete and adequate compression reinforcement
	B. Short-duration loading with low creep concrete and reduced tensile reinforcement ratio
	C. High sustained loading with high creep concrete and limited compression reinforcement
	D. Low sustained loading with high creep concrete and increased effective beam depth

Question ID :	4410092266099
Option 1 ID :	4410098914615
Option 2 ID :	4410098914618
Option 3 ID :	4410098914617
Option 4 ID :	4410098914616
Status :	Answered
Chosen Option :	D

Q.39	A sandy soil sample has a void ratio (e) of 0.65 and an average capillary rise of 0.18 m. If the unit weight of water (γ_w) is 9.81 kN/m ³ , what is the capillary pressure at the maximum height of the capillary rise?
Ans	A. 1.765 kPa
	B. 3.53 kPa
	C. -3.53 kPa
	D. - 1.765 kPa

Question ID :	4410091813828
Option 1 ID :	4410097150950
Option 2 ID :	4410097150953
Option 3 ID :	4410097150952
Option 4 ID :	4410097150951
Status :	Answered
Chosen Option :	C

Q.40	What is the purpose of curtailing flanges in a plate girder ?
Ans	A. To increase the flange thickness
	B. To save material by reducing flange width where bending moment is low
	C. To reduce the dead load
	D. To improve aesthetic appearance

Question ID :	441009674788
Option 1 ID :	4410092653304
Option 2 ID :	4410092653303
Option 3 ID :	4410092653302
Option 4 ID :	4410092653305
Status :	Answered
Chosen Option :	D

Q.41	In the analysis of finite slopes for slope stability, what is typically considered when determining the location of the most critical slip circle?
Ans	A. The slip surface with the maximum soil weight
	B. The slip surface passing through the midpoint of the slope only
	C. The slip surface that gives the minimum factor of safety
	D. The slip surface with the largest radius

Question ID :	4410092266140
Option 1 ID :	4410098914775
Option 2 ID :	4410098914776
Option 3 ID :	4410098914778
Option 4 ID :	4410098914777
Status :	Answered
Chosen Option :	C

Q.42	In a reinforced concrete beam, if the percentage of tensile reinforcements is less than the balanced reinforcement percentage, what type of failure occurs?
Ans	A. Brittle failure in steel
	B. Compression failure of concrete before steel yields
	C. Shear failure
	D. Yielding of steel before concrete crushing

Question ID :	44100925603
Option 1 ID :	441009102064
Option 2 ID :	441009102063
Option 3 ID :	441009102066
Option 4 ID :	441009102065
Status :	Answered
Chosen Option :	D

Q.43	According to the Muller-Breslau principle, the influence line for the bending moment at a section of a continuous beam is given by:
Ans	A. The deflected shape obtained by inserting a hinge at the section and applying a unit rotation
	B. The deflected shape due to a unit settlement of support
	C. The deflected shape obtained by inserting a fixity at the section and applying a unit moment at the section
	D. The deflected shape due to a unit load at the section

Question ID :	4410091367075
Option 1 ID :	4410095399772
Option 2 ID :	4410095399774
Option 3 ID :	4410095399773
Option 4 ID :	4410095399771
Status :	Answered
Chosen Option :	A

Q.44	According to Hooke’s law, how is shear strain γ related to shear stress τ in a material with shear modulus of elasticity G ?
Ans	✔ A. $\gamma = \tau/G$
	✘ B. $\gamma = G/ \tau$
	✘ C. $\gamma = \tau \cdot G$
	✘ D. $\gamma = \tau G$

Question ID :	4410091501584
Option 1 ID :	4410095930742
Option 2 ID :	4410095930741
Option 3 ID :	4410095930740
Option 4 ID :	4410095930743
Status :	Answered
Chosen Option :	A

Q.45	Which activity correctly represents the concept of reuse in the municipal solid waste management hierarchy?
Ans	✔ A. Using discarded products again with minimal modification
	✘ B. Stabilizing biodegradable waste through aerobic decomposition
	✘ C. Recovering thermal energy through controlled combustion
	✘ D. Converting discarded products into new raw materials

Question ID :	4410092266305
Option 1 ID :	4410098915435
Option 2 ID :	4410098915438
Option 3 ID :	4410098915437
Option 4 ID :	4410098915436
Status :	Answered
Chosen Option :	A

Q.46	Terzaghi’s bearing capacity equation does NOT account for which of the following conditions (without modification)?
Ans	✘ A. Neither eccentric nor inclined loading
	✘ B. Inclined loading only
	✘ C. Eccentric loading only
	✔ D. Both eccentric and inclined loading

Question ID :	4410091866168
Option 1 ID :	4410097352973
Option 2 ID :	4410097352971
Option 3 ID :	4410097352970
Option 4 ID :	4410097352972
Status :	Answered
Chosen Option :	D

Q.47	Which condition most directly increases the volume of stormwater entering a sanitary sewer system during heavy rainfall?
Ans	A. Leaking potable water distribution pipelines
	B. Illegal stormwater connections to sanitary sewers
	C. Increased domestic water consumption patterns
	D. Reduced wastewater treatment plant capacity

Question ID :	4410092266300
Option 1 ID :	4410098915416
Option 2 ID :	4410098915415
Option 3 ID :	4410098915417
Option 4 ID :	4410098915418
Status :	Answered
Chosen Option :	B

Q.48	Which of the following best explains why a Universal Testing Machine (UTM) is called “universal”?
Ans	A. It is portable and fits in a toolbox
	B. It measures only the hardness of materials
	C. It can test different materials under various loading conditions
	D. It is meant exclusively for compression tests on concrete

Question ID :	441009976396
Option 1 ID :	4410093858434
Option 2 ID :	4410093858435
Option 3 ID :	4410093858436
Option 4 ID :	4410093858437
Status :	Answered
Chosen Option :	C

Q.49	Which property distinguishes Newton’s divided difference formula from Newton’s forward and backward difference formulas in interpolation?
Ans	A. It is more accurate for all types of data
	B. It can only be used with evenly spaced data
	C. It accommodates data with unequal intervals between x-values
	D. It requires equal intervals for x-values

Question ID :	4410092341373
Option 1 ID :	4410099207492
Option 2 ID :	4410099207494
Option 3 ID :	4410099207495
Option 4 ID :	4410099207493
Status :	Answered
Chosen Option :	B

Q.50	As per Indian standards, ISLB indicates a/an _____.
Ans	☒ A. I-section
	☒ B. Channel section
	☒ C. Angle section
	☒ D. T-section

Question ID :	441009157544
Option 1 ID :	441009625339
Option 2 ID :	441009625340
Option 3 ID :	441009625341
Option 4 ID :	441009625342
Status :	Answered
Chosen Option :	B

Q.51	Which engineering countermeasure optimizes pedestrian protection across multilane signalized intersections by minimizing conflict exposure zones?
Ans	☒ A. Constructing pedestrian refuge islands
	☒ B. Marking dedicated cycle lanes
	☒ C. Elevating continuous median barriers
	☒ D. Installing tactile warning strips

Question ID :	4410092266315
Option 1 ID :	4410098915477
Option 2 ID :	4410098915476
Option 3 ID :	4410098915478
Option 4 ID :	4410098915475
Status :	Answered
Chosen Option :	C

Q.52	Which of the following statements about the effective area of a tension member is TRUE?
Ans	☒ A. Block shear failure is not considered in tension member design.
	☒ B. Net effective area considers deductions from bolt holes and shear lag.
	☒ C. The entire gross cross-sectional area is always effective in tension members.
	☒ D. Shear lag effect is ignored in angle sections.

Question ID :	4410091337031
Option 1 ID :	4410095279879
Option 2 ID :	4410095279882
Option 3 ID :	4410095279880
Option 4 ID :	4410095279881
Status :	Answered
Chosen Option :	C

Q.53	According to SP 35: 1987, what is the typical location of the pumping stations for wastewater, relative to the wet well?
Ans	✖ A. Bottom
	✔ B. Top
	✖ C. Adjacent
	✖ D. Inside

Question ID :	441009978685
Option 1 ID :	4410093867382
Option 2 ID :	4410093867381
Option 3 ID :	4410093867383
Option 4 ID :	4410093867384
Status :	Answered
Chosen Option :	A

Q.54	What is the main reason that inadequate compaction can lead to structural failure in an earthen dam?
Ans	✖ A. Surface sloughing increases during rainfall events
	✔ B. Voids allow water movement causing internal erosion
	✖ C. The crust becomes brittle during dry periods
	✖ D. Shallow cracks form on the upstream slope

Question ID :	4410092266212
Option 1 ID :	4410098915064
Option 2 ID :	4410098915065
Option 3 ID :	4410098915063
Option 4 ID :	4410098915066
Status :	Answered
Chosen Option :	B

Q.55	If r_0 is the initial compression ratio and the r_p is the primary compression ratio, then the secondary compression ratio, _____.
Ans	✖ A. $r_s = 1 + r_p$
	✔ B. $r_s = 1 - (r_0 + r_p)$
	✖ C. $r_s = 1 + (r_0 + r_p)$
	✖ D. $r_s = r_0 + r_p$

Question ID :	441009197516
Option 1 ID :	441009777777
Option 2 ID :	441009777776
Option 3 ID :	441009777779
Option 4 ID :	441009777778
Status :	Answered
Chosen Option :	B

Q.56	What does FRP stand for in construction materials?
Ans	A. Flexible Reinforced Polymer
	B. Flexible Resin Plastic
	C. Fibre Reinforced Plastic
	D. Fibre Resistant Polymer

Question ID :	441009927539
Option 1 ID :	4410093664207
Option 2 ID :	4410093664209
Option 3 ID :	4410093664206
Option 4 ID :	4410093664208
Status :	Answered
Chosen Option :	B

Q.57	Given a dataset where the values are distributed as follows: 4 occurs twice, 7 occurs five times, 9 occurs three times, and 11 occurs five times, which value would be considered the mode?
Ans	A. 7 and 11
	B. no mode
	C. 4
	D. 9

Question ID :	4410092319379
Option 1 ID :	4410099121946
Option 2 ID :	4410099121948
Option 3 ID :	4410099121945
Option 4 ID :	4410099121947
Status :	Answered
Chosen Option :	B

Q.58	Find an eigenvector corresponding to the eigenvalue $\lambda = 2$ of t
Ans	✖ A. $\begin{bmatrix} -2 \\ 2 \end{bmatrix}$
	✖ B. $\begin{bmatrix} -1 \\ -2 \end{bmatrix}$
	✖ C. $\begin{bmatrix} 1 \\ 2 \end{bmatrix}$
	✔ D. $\begin{bmatrix} 1 \\ -2 \end{bmatrix}$

Question ID :	4410091231016
Option 1 ID :	4410094857540
Option 2 ID :	4410094857539
Option 3 ID :	4410094857541
Option 4 ID :	4410094857538
Status :	Answered
Chosen Option :	D

Q.59	For a cantilever beam under UVL (zero at the free end to w at the fixed end), how does the bending moment vary along the length from the free end (x = 0) to the fixed end (x = L)?
Ans	✔ A. It varies as a cubic function of x
	✖ B. It remains constant along x
	✖ C. It varies linearly with x
	✖ D. It varies as a quadratic function of x

Question ID :	4410092266064
Option 1 ID :	4410098914478
Option 2 ID :	4410098914475
Option 3 ID :	4410098914476
Option 4 ID :	4410098914477
Status :	Answered
Chosen Option :	A

Q.60	After conducting Proctor test on soils, we obtain:
Ans	☒ A. flow curve
	☒ B. consolidation curve
	☒ C. settlement curve
	☒ D. compaction curve

Question ID :	4410091371442
Option 1 ID :	4410095417163
Option 2 ID :	4410095417161
Option 3 ID :	4410095417162
Option 4 ID :	4410095417160
Status :	Answered
Chosen Option :	D

Q.61	Tempered hard fibre boards are tempered with which of the following materials to increase their strength and weather resisting properties?
Ans	☒ A. Oil
	☒ B. Polymer
	☒ C. Paint
	☒ D. Asphalt

Question ID :	44100954489
Option 1 ID :	441009216934
Option 2 ID :	441009216937
Option 3 ID :	441009216936
Option 4 ID :	441009216935
Status :	Answered
Chosen Option :	D

Q.62	After water drains from a saturated soil, what does the specific retention represent?
Ans	☒ A. The water volume in transit through pores
	☒ B. The total water that flows out by gravity
	☒ C. The water volume held within the soil matrix
	☒ D. The entire volume of the soil sample

Question ID :	4410092266206
Option 1 ID :	4410098915039
Option 2 ID :	4410098915041
Option 3 ID :	4410098915042
Option 4 ID :	4410098915040
Status :	Answered
Chosen Option :	C

Q.63	In fluid dynamics, the law that governs how mass moves through a control volume is called the:
Ans	✖ A. Pascal's law
	✔ B. Continuity equation
	✖ C. Force equation
	✖ D. Energy balance

Question ID :	441009672978
Option 1 ID :	4410092646030
Option 2 ID :	4410092646031
Option 3 ID :	4410092646032
Option 4 ID :	4410092646029
Status :	Answered
Chosen Option :	B

Q.64	In a three-hinged arch with supports that can move freely horizontally, what is the primary effect of a uniform temperature rise?
Ans	✖ A. Induced bending at mid-span
	✖ B. No effect due to symmetry
	✔ C. Horizontal displacement due to expansion
	✖ D. Bending moments at the supports

Question ID :	4410091501793
Option 1 ID :	4410095931576
Option 2 ID :	4410095931578
Option 3 ID :	4410095931579
Option 4 ID :	4410095931577
Status :	Answered
Chosen Option :	C

Q.65	Which engineering objective governs the structural behavior of a rigid highway pavement slab under vehicular loading?
Ans	✖ A. Allowing flexible deformation under repeated traffic
	✔ B. Distributing wheel loads over the supporting subgrade
	✖ C. Permitting moisture movement through pavement joints
	✖ D. Providing economical service for low-volume roads

Question ID :	4410092266312
Option 1 ID :	4410098915464
Option 2 ID :	4410098915463
Option 3 ID :	4410098915466
Option 4 ID :	4410098915465
Status :	Answered
Chosen Option :	B

Q.66	Which capability best describes the primary function of a Geographic Information System (GIS)?
Ans	✔ A. Capturing analysing and managing spatial data
	✘ B. Displaying navigation routes on digital maps
	✘ C. Generating statistical summaries from tabular data
	✘ D. Acquiring multispectral satellite image datasets

Question ID :	4410092266331
Option 1 ID :	4410098915539
Option 2 ID :	4410098915542
Option 3 ID :	4410098915541
Option 4 ID :	4410098915540
Status :	Answered
Chosen Option :	A

Q.67	Which level can be used in both directions due to its reversible telescope?
Ans	✔ A. Reversible level
	✘ B. Wye level
	✘ C. Dumpy level
	✘ D. Tilting level

Question ID :	441009255965
Option 1 ID :	441009997732
Option 2 ID :	441009997733
Option 3 ID :	441009997730
Option 4 ID :	441009997731
Status :	Answered
Chosen Option :	C

Q.68	Which method is most suitable for solving the one-dimensional wave equation with fixed boundary conditions?
Ans	✘ A. Fourier transform
	✔ B. Separation of variables
	✘ C. Laplace transform
	✘ D. Method of characteristics

Question ID :	4410092341364
Option 1 ID :	4410099207456
Option 2 ID :	4410099207457
Option 3 ID :	4410099207458
Option 4 ID :	4410099207459
Status :	Answered
Chosen Option :	C

Q.69	For a shaft subjected to both bending moment M and torque T, the design is based on:
Ans	✔ A. Equivalent stress using theories of failure
	✘ B. Direct sum of normal and shear stress
	✘ C. Equivalent bending moment
	✘ D. Maximum normal stress only

Question ID :	441009750812
Option 1 ID :	4410092957128
Option 2 ID :	4410092957125
Option 3 ID :	4410092957127
Option 4 ID :	4410092957126
Status :	Answered
Chosen Option :	A

Q.70	Which of the following statements correctly describes earth pressure at rest?
Ans	✘ A. It is the lateral pressure exerted on the retaining wall when the soil mass moves towards the wall.
	✘ B. It is the lateral pressure exerted on the retaining wall when the soil mass moves away from the wall.
	✔ C. It is the lateral pressure exerted on the retaining wall when the soil mass is not allowed to deform.
	✘ D. It is the total vertical pressure exerted by the soil at the base of the retaining wall.

Question ID :	4410092266137
Option 1 ID :	4410098914765
Option 2 ID :	4410098914764
Option 3 ID :	4410098914763
Option 4 ID :	4410098914766
Status :	Answered
Chosen Option :	C

Q.71	What is the primary importance of 'duty' when evaluating the sustainability of an irrigation project over several years?
Ans	✘ A. Duty guarantees uniform water distribution regardless of crop type
	✘ B. Duty maximizes yield in each growing season without future planning
	✘ C. Duty solely controls soil erosion in irrigated fields
	✔ D. Duty ensures long-term water availability for all planned crops

Question ID :	4410092266217
Option 1 ID :	4410098915085
Option 2 ID :	4410098915086
Option 3 ID :	4410098915084
Option 4 ID :	4410098915083
Status :	Answered
Chosen Option :	B

Q.72	Which of the following is typically used as the input for hydrologic storage routing?
Ans	✔ A. Inflow hydrograph to the reservoir
	✘ B. Baseflow hydrograph
	✘ C. Stage-height data at the outlet
	✘ D. Rainfall intensity over the catchment

Question ID :	441009917390
Option 1 ID :	4410093623857
Option 2 ID :	4410093623856
Option 3 ID :	4410093623858
Option 4 ID :	4410093623855
Status :	Answered
Chosen Option :	D

Q.73	Given the function values with step size $h = 1$: $f(1) = 1$, $f(2) =$ find $f'(1)$ using Newton's forward difference formula for the
Ans	✔ A. 2
	✘ B. 4
	✘ C. 10
	✘ D. 6

Question ID :	4410091315705
Option 1 ID :	4410095194409
Option 2 ID :	4410095194410
Option 3 ID :	4410095194412
Option 4 ID :	4410095194411
Status :	Answered
Chosen Option :	B

Q.74	In the classification of steel cross sections based on nature of failure, what is the primary criterion used to differentiate between compact and slender sections?
Ans	✘ A. Material strength before yielding occurs
	✘ B. Cross-section proportions before yielding
	✘ C. Elastic stiffness before yielding occurs
	✔ D. Occurrence of local buckling before yielding

Question ID :	4410092266119
Option 1 ID :	4410098914696
Option 2 ID :	4410098914697
Option 3 ID :	4410098914698
Option 4 ID :	4410098914695
Status :	Answered
Chosen Option :	C

Q.75	At which point does a single-variable function $f(x)$ reach a maximum or minimum value?
Ans	☐ A. Where the function is not continuous
	☒ B. Where its first derivative is zero
	☐ C. Where its derivative is never zero
	☐ D. Where its second derivative is zero

Question ID :	4410092311503
Option 1 ID :	4410099090634
Option 2 ID :	4410099090636
Option 3 ID :	4410099090633
Option 4 ID :	4410099090635
Status :	Answered
Chosen Option :	B

Q.76	According to the theory of bending, how is the distribution of normal stresses across the section described when a beam is subjected to a pure bending moment?
Ans	☐ A. Normal stresses are concentrated at the neutral axis
	☐ B. Normal stresses vary non-linearly from the neutral axis
	☐ C. Normal stresses remain constant across the section
	☒ D. Normal stresses vary linearly from the neutral axis

Question ID :	4410092266053
Option 1 ID :	4410098914433
Option 2 ID :	4410098914431
Option 3 ID :	4410098914434
Option 4 ID :	4410098914432
Status :	Answered
Chosen Option :	C

Q.77	The 2:1 (or 2V:1H) load distribution method is an approximate technique. When compared to the Boussinesq method's integrated solution for the center of a uniformly loaded rectangular area, which statement best characterizes the 2:1 method's typical stress distribution results?
Ans	A. The stress increase is calculated by assuming the soil is an incompressible, purely frictional material ($\phi' > 0$, $c' = 0$), and is independent of the load aspect ratio. B. It consistently yields a higher vertical stress increase ($\Delta\sigma_z$) at all depths, making it the more conservative approach for foundation design. C. It calculates the $\Delta\sigma_z$ based on a failure wedge, making it more accurate for calculating the ultimate bearing capacity rather than settlement. D. It assumes the load spreads uniformly over an area that grows with depth, causing it to typically underestimate stress at shallow depths but potentially overestimate stress at large depths ($z > 4B$).

Question ID :	4410091476956
Option 1 ID :	4410095835234
Option 2 ID :	4410095835235
Option 3 ID :	4410095835233
Option 4 ID :	4410095835232
Status :	Answered
Chosen Option :	A

Q.78	Which objective was primarily emphasized under the Pradhan Mantri Gram Sadak Yojana (PMGSY) in India?
Ans	A. Enhancing rural connectivity to unconnected villages B. Implementing stringent quality standards for highways C. Reducing traffic congestion in urban centers D. Expanding expressways in metropolitan regions

Question ID :	4410091881982
Option 1 ID :	4410097414901
Option 2 ID :	4410097414898
Option 3 ID :	4410097414899
Option 4 ID :	4410097414900
Status :	Answered
Chosen Option :	A

Q.79	If A is a 2x3 matrix and B is a 3x2 matrix, what is the size of the matrix $(AB)^T$, where T denotes the transpose?
Ans	A. 2x3 B. 3x2 C. 2x2 D. 3x3

Question ID :	4410092311497
Option 1 ID :	4410099090609
Option 2 ID :	4410099090611
Option 3 ID :	4410099090612
Option 4 ID :	4410099090610
Status :	Answered
Chosen Option :	C

Q.80	For a two-dimensional element under plane strain, what does the center of Mohr's circle of strains represent?
Ans	☐ A. Average shear strain on the element
	☐ B. Maximum normal strain on the element
	☐ C. Radius of the maximum strain
	☒ D. Average normal strain on the element

Question ID :	4410092266055
Option 1 ID :	4410098914440
Option 2 ID :	4410098914441
Option 3 ID :	4410098914439
Option 4 ID :	4410098914442
Status :	Answered
Chosen Option :	D

Q.81	Which condition is required for the method of superposition to be valid in beam deflection problems?
Ans	☐ A. The method is valid only when temperature changes are applied externally.
	☐ B. All loads must be applied as concentrated point loads along the beam.
	☒ C. The beam must remain linear elastic with small deflections and rotations.
	☐ D. The beam must remain fixed at both ends throughout the loading process.

Question ID :	4410092266059
Option 1 ID :	4410098914455
Option 2 ID :	4410098914458
Option 3 ID :	4410098914456
Option 4 ID :	4410098914457
Status :	Answered
Chosen Option :	C

Q.82	Solve the homogeneous differential equation: $\frac{dy}{dx} = \frac{y}{x}$
Ans	☐ A. $y = C$
	☐ B. $y = Ce^x$
	☒ C. $y = Cx$
	☐ D. $y = Cx^2$

Question ID :	4410091229632
Option 1 ID :	4410094852004
Option 2 ID :	4410094852005
Option 3 ID :	4410094852007
Option 4 ID :	4410094852006
Status :	Answered
Chosen Option :	C

Q.83	Which correction is needed if an aircraft is taking off in hot weather?
Ans	✔ A. Increase the runway length due to lower air density
	✘ B. Reduce the runway length due to better engine performance
	✘ C. No correction needed; temperature does not affect takeoff
	✘ D. Increase the runway length because hotter temperatures reduce friction

Question ID :	44100926435
Option 1 ID :	441009105361
Option 2 ID :	441009105362
Option 3 ID :	441009105363
Option 4 ID :	441009105364
Status :	Answered
Chosen Option :	A

Q.84	In a belt or chain drive system, what may result from excessive initial tension in the belt or chain?
Ans	✔ A. Overloading of bearings
	✘ B. Increase in gear ratio
	✘ C. Decrease in drive speed
	✘ D. Enlargement of pulleys

Question ID :	4410091122559
Option 1 ID :	4410094425795
Option 2 ID :	4410094425793
Option 3 ID :	4410094425794
Option 4 ID :	4410094425796
Status :	Answered
Chosen Option :	D

Q.85	Which statement best describes the operating principle of a wet scrubber used in air pollution control?
Ans	✘ A. It captures particles using electrostatic attraction mechanisms.
	✘ B. It captures particles using porous filtration mechanisms.
	✘ C. It captures particles using centrifugal separation mechanisms.
	✔ D. It captures particles using liquid droplet impaction mechanisms.

Question ID :	4410092266290
Option 1 ID :	4410098915376
Option 2 ID :	4410098915378
Option 3 ID :	4410098915377
Option 4 ID :	4410098915375
Status :	Answered
Chosen Option :	D

Q.86	Which of the following method is commonly used to estimate the return period of rainfall events in hydrologic frequency analysis?
Ans	A. Thiessen polygon method
	B. Double mass analysis

Question ID :	4410091827027
Option 1 ID :	4410097202207
Option 2 ID :	4410097202208
Option 3 ID :	4410097202206
Option 4 ID :	4410097202205
Status :	Answered
Chosen Option :	D

Q.87	Which of the following loading condition represents axial load with uniaxial bending in a reinforced concrete column?
Ans	A. Axial load acting with eccentricity about one principal axis only
	B. Axial load acting concentrically through the centroid of the section

Question ID :	4410092266101
Option 1 ID :	4410098914625
Option 2 ID :	4410098914624
Option 3 ID :	4410098914623
Option 4 ID :	4410098914626
Status :	Answered
Chosen Option :	C

Q.88	Which statement best describes the main purpose of check levelling in the context of levelling operation?
Ans	A. Selecting specific optical surveying instruments
	B. Confirming primary benchmark geographic coordinates

Question ID :	4410092266319
Option 1 ID :	4410098915493
Option 2 ID :	4410098915492
Option 3 ID :	4410098915491
Option 4 ID :	4410098915494
Status :	Answered
Chosen Option :	B

Q.89	The wet unit weight of a clay soil sample, compacted at a water content of 20% was found to be 20 kN/m ³ . The specific gravity of solids is 2.70. Determine the percentage of air voids. Take the unit weight of water as 10 kN/m ³ .
Ans	☒ A. 10%
	☒ B. 85%
	☒ C. 5%
	☒ D. 2.5%

Question ID :	441009272851
Option 1 ID :	4410091059944
Option 2 ID :	4410091059946
Option 3 ID :	4410091059943
Option 4 ID :	4410091059945
Status :	Answered
Chosen Option :	C

Q.90	Which hydraulic requirement must be maintained throughout a water distribution network to ensure satisfactory consumer service under normal operating conditions?
Ans	☒ A. Multiple and interconnected supply sources
	☒ B. Adequate and continuous residual pressure
	☒ C. Balanced and equal pipe diameters
	☒ D. Uniform and constant flow velocity

Question ID :	4410092266297
Option 1 ID :	4410098915406
Option 2 ID :	4410098915405
Option 3 ID :	4410098915404
Option 4 ID :	4410098915403
Status :	Answered
Chosen Option :	B

Q.91	The mean of five numbers is 8. If one number is excluded, the mean of the remaining numbers becomes 7. Find the excluded number.
Ans	☒ A. 10
	☒ B. 15
	☒ C. 8
	☒ D. 12

Question ID :	4410091420856
Option 1 ID :	4410095612349
Option 2 ID :	4410095612351
Option 3 ID :	4410095612348
Option 4 ID :	4410095612350
Status :	Answered
Chosen Option :	D

Q.92	A hydrograph for a catchment with complex geology is analyzed. Which baseflow separation method is most vulnerable to misrepresenting baseflow if subsurface flow response is delayed and prolonged?
Ans	☒ A. Straight line method with fixed start and end points
	☒ B. Concave method following the hydrograph recession limb
	☒ C. Variable interval method based on flow timing
	☒ D. Recursive digital filter with adaptable coefficients

Question ID :	4410092266203
Option 1 ID :	4410098915029
Option 2 ID :	4410098915027
Option 3 ID :	4410098915028
Option 4 ID :	4410098915030
Status :	Answered
Chosen Option :	C

Q.93	Which of the following best describes the primary goal of Rayleigh's method in dimensional analysis?
Ans	☒ A. To find physical constants in an experiment
	☒ B. To calculate specific measurement values
	☒ C. To determine dimensionless groups from variables
	☒ D. To express equations in physical units directly

Question ID :	4410092266220
Option 1 ID :	4410098915096
Option 2 ID :	4410098915095
Option 3 ID :	4410098915098
Option 4 ID :	4410098915097
Status :	Answered
Chosen Option :	C

Q.94	In slab base design, anchor bolts are mainly provided to _____.
Ans	☒ A. prevent lateral movement and uplift of the column
	☒ B. increase the column's height
	☒ C. improve the column's buckling resistance
	☒ D. enhance the column's tensile strength

Question ID :	441009144253
Option 1 ID :	441009573034
Option 2 ID :	441009573033
Option 3 ID :	441009573035
Option 4 ID :	441009573036
Status :	Answered
Chosen Option :	A

Q.95	In plastic analysis, a structure becomes a mechanism when:
Ans	☒ A. Number of plastic hinges = Degree of static indeterminacy
	☒ B. Number of plastic hinges = Degree of kinematic indeterminacy
	☒ C. Number of plastic hinges = (Degree of kinematic indeterminacy of the structure - 1)
	☒ D. Number of plastic hinges = (Degree of static indeterminacy of the structure + 1)

Question ID :	441009135528
Option 1 ID :	441009538629
Option 2 ID :	441009538630
Option 3 ID :	441009538632
Option 4 ID :	441009538631
Status :	Answered
Chosen Option :	B

Q.96	Which of the following best describes the physical structure of a doublet in fluid flow?
Ans	☒ A. A source and a vortex
	☒ B. Two vortices rotating in opposite directions
	☒ C. Two sinks of unequal strength at a distance
	☒ D. A source and a sink of equal strength brought very close

Question ID :	441009673853
Option 1 ID :	4410092649529
Option 2 ID :	4410092649530
Option 3 ID :	4410092649527
Option 4 ID :	4410092649528
Status :	Answered
Chosen Option :	C

Q.97	Why is it important to select a proper gauge site?
Ans	☒ A. To speed up flow velocity
	☒ B. To control bank erosion
	☒ C. To reduce rainfall variability
	☒ D. To ensure accurate stage-discharge relationship

Question ID :	441009240733
Option 1 ID :	441009940914
Option 2 ID :	441009940912
Option 3 ID :	441009940913
Option 4 ID :	441009940911
Status :	Answered
Chosen Option :	A

Q.98	Which structural definition accurately captures the spatial characteristics of a contour line plotted during topographic mapping operations?
Ans	A. Linear alignments maintaining constant slopes
	B. Atmospheric boundaries representing uniform temperatures

Question ID :	4410092266321
Option 1 ID :	4410098915500
Option 2 ID :	4410098915502
Option 3 ID :	4410098915501
Option 4 ID :	4410098915499
Status :	Answered
Chosen Option :	B

Q.99	How does the presence of tension in addition to shear affect the design of a bolted connection?
Ans	A. It makes tension capacity the only concern of design
	B. It increases the allowable shear capacity of bolt

Question ID :	4410092266112
Option 1 ID :	4410098914670
Option 2 ID :	4410098914668
Option 3 ID :	4410098914669
Option 4 ID :	4410098914667
Status :	Answered
Chosen Option :	B

Q.100	If two sections have equal areas but different radii of gyration about the same axis, what can be inferred about their moments of inertia?
Ans	A. Both sections have equal moments of inertia since their areas are the same.
	B. The section with the higher radius of gyration has a greater moment of inertia.

Question ID :	4410092266087
Option 1 ID :	4410098914570
Option 2 ID :	4410098914569
Option 3 ID :	4410098914567
Option 4 ID :	4410098914568
Status :	Answered
Chosen Option :	B