



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	
Test Date	24/08/2026
Test Time	3:00 PM - 6:00 PM
Subject	System

Section : Part 1 General Knowledge Awareness

Q.1	In which Union Budget had the Export Promotion Mission (EPM) been announced as a flagship structural reform aimed at strengthening India's trade competitiveness?
Ans	A. Union Budget 2023–24
	B. Union Budget 2024–25
	C. Union Budget 2025–26
	D. Union Budget 2026–27

Question ID :

4410092215680

Option 1 ID :

4410098718858

Option 2 ID :

4410098718859

Option 3 ID :

4410098718860

Option 4 ID :

4410098718861

Status :

Answered

Chosen Option :

C

Q.2	The 11th Governing Council Meeting held in June 2026 was associated with which Indian administrative and economic body?
Ans	A. Election Commission
	B. Finance Commission
	C. Central Vigilance Commission
	D. NITI Aayog

Question ID :	4410092216361
Option 1 ID :	4410098721581
Option 2 ID :	4410098721580
Option 3 ID :	4410098721578
Option 4 ID :	4410098721579
Status :	Answered
Chosen Option :	B

Q.3	The Revolt of 1857 broke out first at which military cantonment town?
Ans	A. Meerut
	B. Jhansi
	C. Kanpur
	D. Lucknow

Question ID :	4410092215553
Option 1 ID :	4410098718352
Option 2 ID :	4410098718350
Option 3 ID :	4410098718353
Option 4 ID :	4410098718351
Status :	Answered
Chosen Option :	A

Q.4	What is the primary purpose of virtual memory in a computer system?
Ans	A. To increase physical storage capacity
	B. To improve graphics performance
	C. To increase physical storage capacity
	D. To extend RAM capacity by using disk space

Question ID :	441009296694
Option 1 ID :	4410091153881
Option 2 ID :	4410091153883
Option 3 ID :	4410091153880
Option 4 ID :	4410091153882
Status :	Answered
Chosen Option :	C

Q.5	The PSLV-C62 / EOS-N1 Mission of ISRO, launched in January 2026, was conducted as the ninth dedicated commercial mission of which organisation?
Ans	☒ A. National Remote Sensing Centre
	☒ B. Defence Research and Development Organisation
	☒ C. Indian National Space Promotion and Authorisation Centre
	☒ D. NewSpace India Limited

Question ID :	4410092216373
Option 1 ID :	4410098721629
Option 2 ID :	4410098721627
Option 3 ID :	4410098721628
Option 4 ID :	4410098721626
Status :	Answered
Chosen Option :	B

Q.6	Which Constitutional Amendment Act had enabled the creation of the Goods and Services Tax Council and conferred simultaneous power upon Parliament and the State Legislatures to make laws governing goods and services tax?
Ans	☒ A. 100th Constitution Amendment Act, 2015
	☒ B. 101st Constitution Amendment Act, 2016
	☒ C. 103rd Constitution Amendment Act, 2019
	☒ D. 102nd Constitution Amendment Act, 2018

Question ID :	4410092215674
Option 1 ID :	4410098718834
Option 2 ID :	4410098718835
Option 3 ID :	4410098718837
Option 4 ID :	4410098718836
Status :	Answered
Chosen Option :	B

Q.7	Which temple had been associated with the 41-day Mandala kaalam as its major pilgrimage season, followed by the Makaravilakku festival, and was surrounded by mountains and dense forests forming part of the Periyar Tiger Reserve?
Ans	☒ A. Sree Padmanabhaswamy Temple
	☒ B. Sabarimala Sree Dharma Sastha Temple
	☒ C. Thirunelli Temple
	☒ D. Guruvayur Sree Krishna Temple

Question ID :	4410092215686
Option 1 ID :	4410098718883
Option 2 ID :	4410098718884
Option 3 ID :	4410098718882
Option 4 ID :	4410098718885
Status :	Answered
Chosen Option :	B

Q.8 Which ministry had released the SDG Bulletins titled “Planet in Focus: Advancing Environmental Sustainability under the SDGs” and “Delivering Prosperity at Scale: India’s Economic Transformation through the SDGs” in March 2026?

- Ans

A. Ministry of Finance
- B. Ministry of Statistics and Programme Implementation
- C. Ministry of Environment, Forest and Climate Change
- D. Ministry of Rural Development

Question ID :	4410092215627
Option 1 ID :	4410098718648
Option 2 ID :	4410098718646
Option 3 ID :	4410098718647
Option 4 ID :	4410098718649
Status :	Answered
Chosen Option :	C

Q.9 As per the Ministry of Ports, Shipping and Waterways, how many total Major Ports are there in India (As of June 2026)?

- Ans

A. 13
- B. 10
- C. 12
- D. 14

Question ID :	4410092215545
Option 1 ID :	4410098718321
Option 2 ID :	4410098718318
Option 3 ID :	4410098718320
Option 4 ID :	4410098718319
Status :	Answered
Chosen Option :	B

Q.10 The SHE-Marts scheme announced in Union Budget 2026–27 seeks to improve market access for products made by which group?

- Ans

A. Workers in urban factories
- B. Students in rural schools
- C. Women from Self-Help Groups
- D. Farmers under FPO networks

Question ID :	4410092216368
Option 1 ID :	4410098721606
Option 2 ID :	4410098721607
Option 3 ID :	4410098721609
Option 4 ID :	4410098721608
Status :	Answered
Chosen Option :	C

Q.11	Which of the following correctly describes the role of the 'Tropical Easterly Jet Stream' (TEJ) in the Indian monsoon system?
Ans	A. It flows from east to west over the Himalayas during winter, causing snowfall in Kashmir B. It flows from west to east over the southern peninsula during summer, inhibiting cloud formation C. It flows from east to west over peninsular India during summer, strengthening the southwest monsoon D. It flows from west to east over northern India during winter, bringing cold waves

Question ID :	4410092216037
Option 1 ID :	4410098720285
Option 2 ID :	4410098720284
Option 3 ID :	4410098720283
Option 4 ID :	4410098720282
Status :	Answered
Chosen Option :	B

Q.12	According to the IMF's World Economic Outlook released in April 2026, the global economy faced renewed disruption primarily due to which of the following developments?
Ans	A. Breakdown of WTO rules B. Collapse of global banking C. Default by oil exporters D. War in the Middle East

Question ID :	4410092216353
Option 1 ID :	4410098721548
Option 2 ID :	4410098721547
Option 3 ID :	4410098721549
Option 4 ID :	4410098721546
Status :	Answered
Chosen Option :	D

Q.13	Which of the following is the largest coal-based thermal power station in India by installed capacity as of March 2026?
Ans	✔ A. Vindhyachal STPS
	✘ B. Sipat Power Stn
	✘ C. Mundra Power Stn
	✘ D. Talcher STPS

Question ID :	4410092215542
Option 1 ID :	4410098718306
Option 2 ID :	4410098718309
Option 3 ID :	4410098718307
Option 4 ID :	4410098718308
Status :	Answered
Chosen Option :	D

Q.14	Which former Indian tennis player received the Padma Bhushan in 2026 in the field of Sports?
Ans	✘ A. Mahesh Bhupathi
	✘ B. Leander Paes
	✘ C. Rohan Bopanna
	✔ D. Vijay Amritraj

Question ID :	4410092216363
Option 1 ID :	4410098721588
Option 2 ID :	4410098721587
Option 3 ID :	4410098721589
Option 4 ID :	4410098721586
Status :	Answered
Chosen Option :	A

Q.15	What role does encryption play in application security?
Ans	✔ A. It protects information from unauthorized access
	✘ B. It enhances display quality
	✘ C. It slows down cyber attacks
	✘ D. It increases processing power

Question ID :	4410091838568
Option 1 ID :	4410097247822
Option 2 ID :	4410097247824
Option 3 ID :	4410097247823
Option 4 ID :	4410097247825
Status :	Answered
Chosen Option :	A

Q.16 Who founded the Mughal Empire in India after defeating Ibrahim Lodi at the First Battle of Panipat in 1526?

- Ans

A. Humayun
- B. Akbar
- C. Babur
- D. Jahangir

Question ID :	4410092215551
Option 1 ID :	4410098718342
Option 2 ID :	4410098718343
Option 3 ID :	4410098718344
Option 4 ID :	4410098718345
Status :	Answered
Chosen Option :	A

Q.17 Which regional organisation celebrated its 29th anniversary in June 2026, reaffirming cooperation in the Bay of Bengal region?

- Ans

A. SAARC
- B. SCO
- C. BIMSTEC
- D. ASEAN

Question ID :	4410092216358
Option 1 ID :	4410098721568
Option 2 ID :	4410098721566
Option 3 ID :	4410098721569
Option 4 ID :	4410098721567
Status :	Answered
Chosen Option :	C

Q.18 Which of the following statements about the Tropical Rainforest Climate (Af) is correct?

- Ans

A. It experiences a distinct dry season lasting 3-4 months
- B. high temperatures and significant rainfall throughout the entire year
- C. The region experiences temperatures below 10°C during winter months
- D. It is found exclusively in the Amazon Basin

Question ID :	4410092216051
Option 1 ID :	4410098720338
Option 2 ID :	4410098720339
Option 3 ID :	4410098720341
Option 4 ID :	4410098720340
Status :	Answered
Chosen Option :	B

Q.19	The 'October Heat' phenomenon in India is attributed to which of the following conditions?	
Ans	☒ A. Intense low pressure over the Bay of Bengal	
	☒ B. Low humidity and frequent cyclonic storms	
	☒ C. Cold northerly winds from the Himalayas	
	☒ D. Clear skies, high insolation, and moist air from retreating monsoon	

Question ID :	4410092216038
Option 1 ID :	4410098720289
Option 2 ID :	4410098720286
Option 3 ID :	4410098720288
Option 4 ID :	4410098720287
Status :	Answered
Chosen Option :	D

Q.20	Which European power was the first to reach India by the sea route, led by Vasco da Gama in 1498?	
Ans	☒ A. British	
	☒ B. Portuguese	
	☒ C. French	
	☒ D. Dutch	

Question ID :	4410092215552
Option 1 ID :	4410098718348
Option 2 ID :	4410098718346
Option 3 ID :	4410098718349
Option 4 ID :	4410098718347
Status :	Answered
Chosen Option :	B

Q.21	Which Parliamentary Committee is often called a 'mini-Parliament' as it scrutinises government spending using audit reports of the Comptroller and Auditor General?	
Ans	☒ A. Public Undertakings Committee	
	☒ B. Public Accounts Committee	
	☒ C. Estimates Committee Report	
	☒ D. Business Advisory Committee	

Question ID :	4410092339437
Option 1 ID :	4410099199846
Option 2 ID :	4410099199845
Option 3 ID :	4410099199844
Option 4 ID :	4410099199847
Status :	Answered
Chosen Option :	B

Q.22 Which scientist is credited with developing the smallpox vaccine, laying the foundation for immunology?

- Ans ☒ A. Paul Ehrlich
- ☒ B. Jonas Salk
- ☒ C. Alexander Fleming
- ☒ D. Edward Jenner

Question ID :	4410092216056
Option 1 ID :	4410098720360
Option 2 ID :	4410098720358
Option 3 ID :	4410098720361
Option 4 ID :	4410098720359
Status :	Answered
Chosen Option :	C

Q.23 In which year had the Goods and Services Tax (GST) been introduced in India, replacing a fragmented and complex system of indirect taxes?

- Ans ☒ A. 2014
- ☒ B. 2010
- ☒ C. 2017
- ☒ D. 2019

Question ID :	4410092215683
Option 1 ID :	4410098718870
Option 2 ID :	4410098718873
Option 3 ID :	4410098718871
Option 4 ID :	4410098718872
Status :	Answered
Chosen Option :	C

Q.24 The Pamban Bridge, India's first sea bridge, connects the mainland of Tamil Nadu to which of the following islands?

- Ans ☒ A. Andaman Islands
- ☒ B. Rameswaram Island
- ☒ C. Diu Island
- ☒ D. Majuli Island

Question ID :	4410092216046
Option 1 ID :	4410098720320
Option 2 ID :	4410098720321
Option 3 ID :	4410098720319
Option 4 ID :	4410098720318
Status :	Answered
Chosen Option :	B

Q.25	During a National Emergency under Article 352, which Fundamental Right remains protected and cannot be suspended, as guaranteed by the 44th Amendment Act, 1978?
Ans	✖ A. Right to Freedom of Religion
	✔ B. Right to Life and Personal Liberty
	✖ C. Right to Acquire Property
	✖ D. Right to Freedom of Speech

Question ID :	4410092339441
Option 1 ID :	4410099199863
Option 2 ID :	4410099199862
Option 3 ID :	4410099199861
Option 4 ID :	4410099199860
Status :	Answered
Chosen Option :	B

Section : Part 2 Numerical Ability

Q.1	The geometric mean of four positive numbers is 12. Three of the numbers are 6, 18, and 24. What is the fourth number?
Ans	✔ A. 8
	✖ B. 10
	✖ C. 4
	✖ D. 6

Question ID :	4410092200492
Option 1 ID :	4410098659142
Option 2 ID :	4410098659143
Option 3 ID :	4410098659140
Option 4 ID :	4410098659141
Status :	Answered
Chosen Option :	A

Q.2	A solid metallic sphere of radius 6 cm is melted and recast into identical solid cones, each having a radius of 3 cm and a height of 12 cm. Assuming no loss of material, how many cones can be formed?
Ans	✓ A. 8
	✗ B. 4
	✗ C. 6
	✗ D. 10

Question ID :	4410092200503
Option 1 ID :	4410098659186
Option 2 ID :	4410098659184
Option 3 ID :	4410098659185
Option 4 ID :	4410098659187
Status :	Answered
Chosen Option :	A

Q.3	A solid hemisphere of radius 28 cm is melted and recast into identical solid spheres, each of radius 7 cm. How many spheres can be formed?
Ans	✗ A. 36
	✓ B. 32
	✗ C. 24
	✗ D. 28

Question ID :	4410092200501
Option 1 ID :	4410098659179
Option 2 ID :	4410098659178
Option 3 ID :	4410098659176
Option 4 ID :	4410098659177
Status :	Answered
Chosen Option :	B

Q.4	An engineering company is designing a solid right prism whose base is a right-angled triangle with sides 9 cm, 12 cm, and 15 cm. The prism has a height of 20 cm. What is the total surface area of the prism?
Ans	✗ A. 792 cm²
	✓ B. 828 cm²
	✗ C. 810 cm²
	✗ D. 846 cm²

Question ID :	4410092200506
Option 1 ID :	4410098659196
Option 2 ID :	4410098659198
Option 3 ID :	4410098659197
Option 4 ID :	4410098659199
Status :	Answered
Chosen Option :	B

Q.5	A laboratory prepares a chemical solution by mixing Chemical A and Chemical B in the proportion 5 : 8. If 104 litres of the solution are prepared, how much quantity of Chemical B is required?
Ans	✖ A. 40 litres
	✖ B. 72 litres
	✖ C. 36 litres
	✔ D. 64 litres

Question ID :	4410092200483
Option 1 ID :	4410098659105
Option 2 ID :	4410098659107
Option 3 ID :	4410098659104
Option 4 ID :	4410098659106
Status :	Answered
Chosen Option :	D

Q.6	A box contains 5 red, 4 blue, and 3 green balls. Two balls are drawn one after another without replacement. What is the probability that the two balls are of different colours?
Ans	✖ A. $\frac{41}{66}$
	✖ B. $\frac{43}{66}$
	✖ C. $\frac{37}{66}$
	✔ D. $\frac{47}{66}$

Question ID :	4410092200498
Option 1 ID :	4410098659165
Option 2 ID :	4410098659166
Option 3 ID :	4410098659164
Option 4 ID :	4410098659167
Status :	Answered
Chosen Option :	D

Q.7	The sum of the present ages of Tommy and Arthur is 23 years. Four years ago from now, Arthur's age was half of Tommy's age at that time. What is Tommy's present age (in years)?
Ans	✖ A. 24
	✔ B. 14
	✖ C. 9
	✖ D. 22

Question ID :	4410091220102
Option 1 ID :	4410094813832
Option 2 ID :	4410094813831
Option 3 ID :	4410094813834
Option 4 ID :	4410094813833
Status :	Answered
Chosen Option :	B

Q.8	The average of four numbers is 20. If one of the numbers is 10, which equation represents the sum of the remaining three numbers?
Ans	✖ A. Sum of remaining three numbers = 10×3
	✖ B. Sum of remaining three numbers = $(20 - 10) \times 4$
	✔ C. Sum of remaining three numbers = $(20 \times 4) - 10$
	✖ D. Sum of remaining three numbers = $(20 + 10) \times 3$

Question ID :	4410092200456
Option 1 ID :	4410098658997
Option 2 ID :	4410098658998
Option 3 ID :	4410098658999
Option 4 ID :	4410098658996
Status :	Answered
Chosen Option :	C

Q.9	In a division sum, the divisor is 16 times the quotient and 5 times the remainder. If the remainder is 64, what is the dividend?
Ans	✖ A. 6469
	✔ B. 6464
	✖ C. 6465
	✖ D. 6468

Question ID :	441009559907
Option 1 ID :	4410092194897
Option 2 ID :	4410092194895
Option 3 ID :	4410092194898
Option 4 ID :	4410092194896
Status :	Answered
Chosen Option :	B

Q.10	A charity divides its total funds between two projects. Project A receives 45% of the total funds, and Project B receives the remaining 55%. What is the ratio of the funds allocated to Project A and Project B?
Ans	✖ A. 5 : 6
	✖ B. 11 : 9
	✖ C. 9 : 10
	✔ D. 9 : 11

Question ID :	4410092200474
Option 1 ID :	4410098659068
Option 2 ID :	4410098659071
Option 3 ID :	4410098659069
Option 4 ID :	4410098659070
Status :	Answered
Chosen Option :	D

Q.11	A train covers a certain distance at a uniform speed. If the train had been 6 km/hr faster, it would have taken 4 hours less than the scheduled time. If the train was slower by 6 km/hr, it would have taken 6 hours more than the scheduled time. What is the length of the journey?
Ans	✔ A. 720 km
	✖ B. 600 km
	✖ C. 680 km
	✖ D. 750 km

Question ID :	4410091560813
Option 1 ID :	4410096165452
Option 2 ID :	4410096165450
Option 3 ID :	4410096165451
Option 4 ID :	4410096165453
Status :	Answered
Chosen Option :	A

Q.12 A pharmaceutical company designs a spherical medicine capsule container with an internal radius of 6 cm. The container is to be completely filled with a liquid medicine. What is the volume of the container? (Use $\pi = 22/7$)

- Ans

A. $905\frac{1}{7} \text{ cm}^3$
- B. $1056\frac{1}{3} \text{ cm}^3$
- C. $1121\frac{1}{7} \text{ cm}^3$
- D. $1223\frac{1}{3} \text{ cm}^3$

Question ID :	4410092200509
Option 1 ID :	4410098659208
Option 2 ID :	4410098659209
Option 3 ID :	4410098659210
Option 4 ID :	4410098659211
Status :	Answered
Chosen Option :	A

Q.13 Portfolio A has stocks and bonds in the ratio 7 : 5, and Portfolio B has stocks and bonds in the ratio 9 : 7. If both portfolios have the same total investment, which portfolio has a larger share of stocks, and by what fraction of the total investment?

- Ans

A. Portfolio B by $\frac{1}{24}$
- B. Portfolio B by $\frac{1}{48}$
- C. Portfolio A by $\frac{1}{48}$
- D. Portfolio A by $\frac{1}{24}$

Question ID :	4410092200486
Option 1 ID :	4410098659119
Option 2 ID :	4410098659118
Option 3 ID :	4410098659116
Option 4 ID :	4410098659117
Status :	Answered
Chosen Option :	C

Q.14 A jeep covers a distance of 100 km at a uniform speed. If the speed of the jeep is increased by 5 kmph, then it takes 1 hour less to cover the same distance. The original speed of the jeep is

- Ans

A. 18 kmph
- B. 23 kmph
- C. 21 kmph
- D. 20 kmph

Question ID : 441009371783

Option 1 ID : 4410091453050

Option 2 ID : 4410091453051

Option 3 ID : 4410091453049

Option 4 ID : 4410091453048

Status : Answered

Chosen Option : D

Q.15 A shopkeeper buys sugar for ₹40 per kg using an accurate weighing scale. He sells it for ₹50 per kg but gives only 800 g instead of 1 kg. What is his actual profit percentage?

- Ans

A. 62.5%
- B. 60%
- C. 50%
- D. 56.25%

Question ID : 4410092200480

Option 1 ID : 4410098659095

Option 2 ID : 4410098659094

Option 3 ID : 4410098659092

Option 4 ID : 4410098659093

Status : Answered

Chosen Option : D

Q.16	A sum, when invested at 20% simple interest per annum, amounts to ₹8,400 after 2 years. What is the simple interest (in ₹) on the same sum at the same rate in 2 years?
Ans	✔ A. 2,400
	✘ B. 1,200
	✘ C. 9,600
	✘ D. 4,800

Question ID :	441009568329
Option 1 ID :	4410092228436
Option 2 ID :	4410092228438
Option 3 ID :	4410092228439
Option 4 ID :	4410092228437
Status :	Answered
Chosen Option :	A

Q.17	A shopkeeper buys a school bag for ₹800 and marks it at 25% above the cost price. He sells it at the marked price. What is his profit?
Ans	✘ A. ₹150
	✘ B. ₹250
	✘ C. ₹180
	✔ D. ₹200

Question ID :	4410092200477
Option 1 ID :	4410098659080
Option 2 ID :	4410098659083
Option 3 ID :	4410098659081
Option 4 ID :	4410098659082
Status :	Answered
Chosen Option :	D

Q.18	Three research assistants, A, B, and C, have efficiencies in the ratio 3 : 4 : 5. Together, they can complete a project in 12 days. If A works alone for the first 8 days, after which B and C join and all three continue working together, how many more days are required to complete the remaining work?
Ans	✖ A. 6
	✖ B. 12
	✔ C. 10
	✖ D. 8

Question ID :	4410092200495
Option 1 ID :	4410098659152
Option 2 ID :	4410098659155
Option 3 ID :	4410098659154
Option 4 ID :	4410098659153
Status :	Answered
Chosen Option :	C

Q.19	The weighted average of two exams is 70. Exam 1 counts twice as much as Exam 2. If the average score on Exam 2 is 60, what is the average score on Exam 1?
Ans	✖ A. 70
	✖ B. 80
	✔ C. 75
	✖ D. 65

Question ID :	4410092200459
Option 1 ID :	4410098659009
Option 2 ID :	4410098659011
Option 3 ID :	4410098659010
Option 4 ID :	4410098659008
Status :	Answered
Chosen Option :	B

Q.20	Simplify: $\sqrt[3]{\frac{4096 \times 512}{64}}$
Ans	A. 48
	B. 24
	C. 16
	D. 32

Question ID :	4410092200471
Option 1 ID :	4410098659059
Option 2 ID :	4410098659057
Option 3 ID :	4410098659056
Option 4 ID :	4410098659058
Status :	Answered
Chosen Option :	D

Q.21	A researcher schedules three periodic tasks: Alpha every 22 days, Beta every 36 days, and Gamma every 45 days. All three tasks are completed together today. She wants to schedule the next review meeting on the earliest day when all three tasks are due again. After how many days should she hold the review meeting?
Ans	A. 1,320
	B. 990
	C. 1,980
	D. 1,650

Question ID :	4410092200468
Option 1 ID :	4410098659045
Option 2 ID :	4410098659044
Option 3 ID :	4410098659047
Option 4 ID :	4410098659046
Status :	Answered
Chosen Option :	C

Q.22 If ₹10.75 is split equally among 5 people, how much does each person get?

- Ans

✖

A. ₹2.35
- ✖

B. ₹2.25
- ✖

C. ₹2.05
- ✔

D. ₹2.15

Question ID :	4410092200465
Option 1 ID :	4410098659035
Option 2 ID :	4410098659034
Option 3 ID :	4410098659032
Option 4 ID :	4410098659033
Status :	Answered
Chosen Option :	D

Q.23 A sum of ₹8,000 is invested at a compound interest rate of 5% per annum for 2 years, interest compounded annually. Find the total amount at the end of 2 years.

- Ans

✖

A. ₹9,020
- ✔

B. ₹8,820
- ✖

C. ₹8,420
- ✖

D. ₹8,620

Question ID :	4410092200462
Option 1 ID :	4410098659023
Option 2 ID :	4410098659022
Option 3 ID :	4410098659020
Option 4 ID :	4410098659021
Status :	Answered
Chosen Option :	B

Q.24 The amount A accumulated on an investment varies directly as the principal P and inversely as the square of the time t. When ₹20,000 is invested for 2 years, the accumulated amount is ₹25,000. If ₹45,000 is invested for 3 years under the same conditions, what will be the accumulated amount?

- Ans

✖

A. ₹22,500
- ✖

B. ₹20,000
- ✖

C. ₹27,500
- ✔

D. ₹25,000

Question ID :	4410092200489
Option 1 ID :	4410098659129
Option 2 ID :	4410098659128
Option 3 ID :	4410098659131
Option 4 ID :	4410098659130
Status :	Answered
Chosen Option :	A

Q.25

The cost of a washing machine is 15% less than the cost of a television. If the cost of the washing machine increases by 83% and that of the TV decreases by 40%, then what is the percentage change in the total cost of 5 washing machines and 6 televisions?

Ans

✖ A. Increase by 9%

✖ B. Decrease by 6%

✔ C. Increase by 11%

✖ D. Decrease by 10%

Question ID : 441009560862

Option 1 ID : 4410092198717

Option 2 ID : 4410092198718

Option 3 ID : 4410092198715

Option 4 ID : 4410092198716

Status : Answered

Chosen Option : C

Section : Part 3 Reasoning

Q.1 Select the Venn diagram that best illustrates the relationship between the following classes
Carrot, Fruit, Apple

Ans

✓ A.

C

A

F

✗ B.

A

F

C

✗ C.

C

F

A

✗ D.

C

A

F

Question ID :	4410092226645
Option 1 ID :	4410098761867
Option 2 ID :	4410098761868
Option 3 ID :	4410098761865
Option 4 ID :	4410098761866
Status :	Answered
Chosen Option :	A

Q.2	HVJC is related to IXIA in a certain way based on the English alphabetical order. In the same way, XQDI is related to YSCG. To which of the following is RWPM related, following the same logic? 1955
Ans	✖ A. SXPK
	✔ B. SYOK
	✖ C. SYPJ
	✖ D. RXOK

Question ID :	441009805366
Option 1 ID :	4410093175590
Option 2 ID :	4410093175588
Option 3 ID :	4410093175589
Option 4 ID :	4410093175587
Status :	Answered
Chosen Option :	B

Q.3	Meena is the mother of Anjali. Anjali is the wife of Sandeep. Sandeep is the father of Rohan. Rohan is the brother of Nisha. How is Meena related to Nisha?
Ans	✖ A. Father's sister
	✖ B. Father's mother
	✔ C. Mother's mother
	✖ D. Mother's sister

Question ID :	4410092226633
Option 1 ID :	4410098761820
Option 2 ID :	4410098761819
Option 3 ID :	4410098761817
Option 4 ID :	4410098761818
Status :	Answered
Chosen Option :	C

Q.4	Riya starts walking from a point P. She walks towards east for 2 m. Then she takes a right turn and walks for 3 m. Then she takes left turn and walks for 7 m. Then she takes a right turn and walks for 12 m. Then she takes a right turn and walks for 4 m. Again, she takes a right turn and walks for 5 m. Then she takes a left turn and walks for 2 m. Then she takes a left turn and walks for 6 m. Then she takes a right turn and walks for 3 m. At last, she takes a right turn and walks for 5 m before stopping at a point Q. Towards which direction is point P located with respect to point Q? (All turns are 90-degree turns only unless specified.)
Ans	✖ A. South
	✖ B. North East
	✖ C. South West
	✔ D. North

Question ID :	44100964618
Option 1 ID :	441009257441
Option 2 ID :	441009257442
Option 3 ID :	441009257444
Option 4 ID :	441009257443
Status :	Answered
Chosen Option :	D

Q.5	What should come in place of '?' in the given series? 54 60 72 90 114 ?
Ans	✖ A. 146
	✖ B. 147
	✔ C. 144
	✖ D. 142

Question ID :	4410091201851
Option 1 ID :	4410094741188
Option 2 ID :	4410094741189
Option 3 ID :	4410094741187
Option 4 ID :	4410094741186
Status :	Answered
Chosen Option :	C

Q.6	An accurate clock shows 2:00 PM. By how many degrees will the hour hand rotate when the clock shows 11:00 PM?
Ans	✔ A. 270°
	✘ B. 180°
	✘ C. 210°
	✘ D. 240°

Question ID :	4410092227684
Option 1 ID :	4410098765124
Option 2 ID :	4410098765127
Option 3 ID :	4410098765126
Option 4 ID :	4410098765125
Status :	Answered
Chosen Option :	A

Q.7	M, N, O, P, W, X and Y are sitting around a circular table, facing the centre of the table. P sits to the immediate left of N. W sits to the immediate left of M. M sits second to the left of X. O sits third to the left of N. Who sits third to the right of Y?
Ans	✘ A. M
	✘ B. Y
	✔ C. O
	✘ D. P

Question ID :	441009810004
Option 1 ID :	4410093194139
Option 2 ID :	4410093194142
Option 3 ID :	4410093194140
Option 4 ID :	4410093194141
Status :	Answered
Chosen Option :	C

Q.8 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 conclusion(s) logically follow(s) from the statements.

Statements:
All plates are spoons.
All spoons are bowls.

Conclusions:
(I) Some bowls are plates.
(II) Some bowls are spoons.

- Ans

A. Neither conclusion (I) nor (II) follows.
- B. Only conclusion (II) follows.
- C. Both conclusions (I) and (II) follow.
- D. Only conclusion (I) follows.

Question ID :	44100928285
Option 1 ID :	441009112674
Option 2 ID :	441009112673
Option 3 ID :	441009112675
Option 4 ID :	441009112672
Status :	Answered
Chosen Option :	C

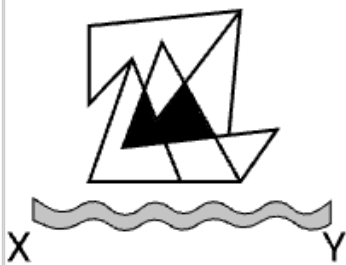
Q.9 In a certain code,
'blanket pillow mattress' is coded as 'vx kp rd'
'mattress curtain carpet' is coded as 'rd jm ty'
'carpet blanket cushion' is coded as 'vx nq jm'
(all the codes are two-letter codes only)
Which word is coded as 'ty'?

- Ans

A. curtain
- B. carpet
- C. mattress
- D. pillow

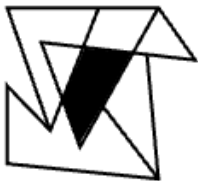
Question ID :	4410092226637
Option 1 ID :	4410098761833
Option 2 ID :	4410098761834
Option 3 ID :	4410098761835
Option 4 ID :	4410098761836
Status :	Answered
Chosen Option :	A

Q.10 If the water source is placed along X-Y, as shown in the figure, which of the given options will be the water reflection of the given figure.



Ans

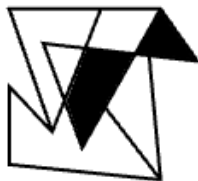
☒ A.



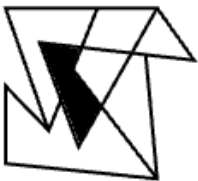
☒ B.



☒ C.



☒ D.



Question ID : 4410092228111

Option 1 ID : 4410098766768

Option 2 ID : 4410098766769

Option 3 ID : 4410098766771

Option 4 ID : 4410098766770

Status : Answered

Chosen Option : B

Q.11 Refer to the given letter and symbol series and answer the question that follows.
Counting to be done from left to right only.

(Left) N F K * Q % ? U H # J O \$ * H D @ Z + J V (Right)

How many such symbols are there, each of which is immediately preceded by a letter and also immediately followed by a letter?

- | | |
|-----|---|
| Ans | ☒ A. One |
| | ☒ B. Two |
| | ☒ C. Three |
| | ☒ D. Four |

Question ID :	441009782646
Option 1 ID :	4410093084587
Option 2 ID :	4410093084588
Option 3 ID :	4410093084589
Option 4 ID :	4410093084590
Status :	Answered
Chosen Option :	D

Q.12 If 2 is added to each odd digit and 3 is subtracted from each even digit in the number 1467538, how many digits will appear more than once in the new number thus formed?

- | | |
|-----|---|
| Ans | ☒ A. Three |
| | ☒ B. None |
| | ☒ C. Two |
| | ☒ D. One |

Question ID :	441009550870
Option 1 ID :	4410092158797
Option 2 ID :	4410092158794
Option 3 ID :	4410092158796
Option 4 ID :	4410092158795
Status :	Answered
Chosen Option :	C

Q.13	Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster 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. NUQ
	✖ B. QXT
	✖ C. AHD
	✔ D. LSP

Question ID :	441009385010
Option 1 ID :	4410091505663
Option 2 ID :	4410091505664
Option 3 ID :	4410091505665
Option 4 ID :	4410091505662
Status :	Answered
Chosen Option :	D

Q.14	In this question, a statement is followed by two courses of action, numbered I and II. You must assume everything in the statement to be true, and on the basis of the information given in the statement, decide which of the courses of action logically follow(s) for pursuing. Statement: Frequent breakdown of city buses in City R has caused inconvenience to daily commuters. Courses of Action: I. Older buses should be repaired and maintained regularly to avoid breakdowns. II. Taxes on private vehicles should be increased.
Ans	✖ A. Neither I nor II follows
	✖ B. Only II follows
	✖ C. Both I and II follow
	✔ D. Only I follows

Question ID :	4410091207078
Option 1 ID :	4410094761841
Option 2 ID :	4410094761839
Option 3 ID :	4410094761840
Option 4 ID :	4410094761838
Status :	Answered
Chosen Option :	D

Q.15	What should come in place of the question mark (?) in the following series based on the English alphabetical order? LOJ MPK NQL ORM ?
Ans	A. SPM
	B. PSN
	C. SPN
	D. PSM

Question ID :	441009732344
Option 1 ID :	4410092883131
Option 2 ID :	4410092883128
Option 3 ID :	4410092883130
Option 4 ID :	4410092883129
Status :	Answered
Chosen Option :	B

Q.16	Refer to the given letter and symbol series and answer the question that follows. Counting to be done from left to right only. (Left) % J \$ K Y © £ £ X N A \$ C & % B © B O € D P (Right) How many such letters are there, each of which is immediately preceded by a symbol and also immediately followed by a symbol?
Ans	A. 4
	B. 3
	C. 5
	D. 2

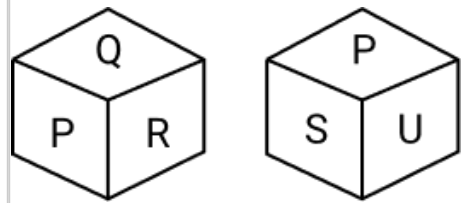
Question ID :	441009695654
Option 1 ID :	4410092736647
Option 2 ID :	4410092736646
Option 3 ID :	4410092736649
Option 4 ID :	4410092736648
Status :	Answered
Chosen Option :	B

Q.17 If 21 October 2003 is a Tuesday, then what will be the day of the week on 17 June 2011?

- Ans ☒ A. Friday
- ☐ B. Saturday
- ☐ C. Thursday
- ☐ D. Sunday

Question ID :	441009723298
Option 1 ID :	4410092846945
Option 2 ID :	4410092846946
Option 3 ID :	4410092846944
Option 4 ID :	4410092846947
Status :	Answered
Chosen Option :	C

Q.18 Six letters, P, Q, R, S, T and U, are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the letter on the face opposite to T.



- Ans ☐ A. S
- ☒ B. P
- ☐ C. Q
- ☐ D. U

Question ID :	441009865742
Option 1 ID :	4410093416088
Option 2 ID :	4410093416089
Option 3 ID :	4410093416090
Option 4 ID :	4410093416091
Status :	Answered
Chosen Option :	B

Q.19 Seven boxes, C, H, A, I, R, E and D, are kept one over the other but not necessarily in the same order.
Only H is kept above R. Only two boxes are kept between R and E. Only A is kept below I. D is not kept immediately above E.
How many boxes are kept between C and A?

- Ans

A. Four
- B. Two
- C. Three
- D. One

Question ID :	4410091526437
Option 1 ID :	4410096028865
Option 2 ID :	4410096028863
Option 3 ID :	4410096028864
Option 4 ID :	4410096028862
Status :	Answered
Chosen Option :	B

Q.20 C, D, E, F, Y and Z live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2 and so on, till the topmost floor, which is numbered 6.
E lives on floor number 4. Only two people live between E and Y. Only D lives between E and F. C lives immediately below E.
Who lives on floor number 2?

- Ans

A. D
- B. Z
- C. C
- D. F

Question ID :	441009693452
Option 1 ID :	4410092727839
Option 2 ID :	4410092727841
Option 3 ID :	4410092727840
Option 4 ID :	4410092727838
Status :	Answered
Chosen Option :	B

Q.21	C, O, R, P and E have different heights. Only three people have heights between E and R. P is taller than O but shorter than C. E is taller than R. How many people are shorter than P?
Ans	✖ A. One
	✔ B. Two
	✖ C. Three
	✖ D. Four

Question ID :	4410091646975
Option 1 ID :	4410096504161
Option 2 ID :	4410096504162
Option 3 ID :	4410096504163
Option 4 ID :	4410096504164
Status :	Answered
Chosen Option :	B

Q.22	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 are sufficient to answer the question. Read both the statements and decide the appropriate answer. Five innovation centres – Apex, Bloom, Crest, Drive and Elevate – are allotted Building Numbers 1 to 5 , one distinct building to each centre. Which building is allotted to Crest? (I) Crest is allotted a higher-numbered building than Bloom but a lower-numbered building than Drive. (II) Apex is allotted Building 1, Bloom is allotted Building 2, and Elevate is allotted Building 5.
Ans	✖ A. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
	✖ B. Both statements I and II together are NOT sufficient to answer the question
	✖ C. Data in Statement I alone is sufficient to answer the question while data in Statement II is not
	✔ D. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question

Question ID :	4410092226641
Option 1 ID :	4410098761851
Option 2 ID :	4410098761852
Option 3 ID :	4410098761850
Option 4 ID :	4410098761849
Status :	Answered
Chosen Option :	D

Q.23	22 is related to 157 following a certain logic. Following the same logic, 34 is related to 241. To which of the following is 45 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. 314
	✖ B. 316
	✖ C. 320
	✔ D. 318

Question ID :	4410092226647
Option 1 ID :	4410098761875
Option 2 ID :	4410098761874
Option 3 ID :	4410098761876
Option 4 ID :	4410098761873
Status :	Answered
Chosen Option :	D

Q.24	Each consonant in the word RECORD is changed to the letter immediately following it in the English alphabetical order and vowels are kept unchanged. How many vowels are there in the word so formed?
Ans	✖ A. Four
	✖ B. Five
	✔ C. Three
	✖ D. Two

Question ID :	441009790861
Option 1 ID :	4410093117446
Option 2 ID :	4410093117443
Option 3 ID :	4410093117445
Option 4 ID :	4410093117444
Status :	Answered
Chosen Option :	C

Q.25	What should come in place of the question mark (?) in the given series? 68 79 92 107 124 ?
Ans	✖ A. 142
	✖ B. 145
	✔ C. 143
	✖ D. 144

Question ID :	441009338566
Option 1 ID :	4410091320229
Option 2 ID :	4410091320231
Option 3 ID :	4410091320228
Option 4 ID :	4410091320230
Status :	Answered
Chosen Option :	C

Section : Part 4 General English

Q.1	Select the option where the given sentence has been correctly converted to the Passive Voice. Submit the expense report by Friday.
Ans	✖ A. You are submitting the expense report by Friday.
	✖ B. The expense report has to be submitted by Friday.
	✔ C. Let the expense report be submitted by Friday.
	✖ D. You should submit the expense report by Friday.

Question ID :	4410092306002
Option 1 ID :	4410099069575
Option 2 ID :	4410099069574
Option 3 ID :	4410099069572
Option 4 ID :	4410099069573
Status :	Answered
Chosen Option :	B

Q.2	Identify the error in the given sentence and choose the option that is the rectified version. The train is arriving at platform 3 at 5 PM sharp, according to the printed timetable.
Ans	✔ A. The train arrives at platform 3 at 5 PM sharp, according to the printed timetable.
	✘ B. The train has arrived at platform 3 at 5 PM sharp, according to the printed timetable.
	✘ C. The train has been arriving at platform 3 at 5 PM sharp, according to the printed timetable.
	✘ D. The train arrived at platform 3 at 5 PM sharp, according to the printed timetable.

Question ID :	4410092301999
Option 1 ID :	4410099053713
Option 2 ID :	4410099053712
Option 3 ID :	4410099053714
Option 4 ID :	4410099053711
Status :	Answered
Chosen Option :	B

Q.3	Select the wrongly spelt word.
Ans	✘ A. Magnanimous
	✔ B. Acquiesence
	✘ C. Aesthetic
	✘ D. Conscientious

Question ID :	4410091305621
Option 1 ID :	4410095154564
Option 2 ID :	4410095154563
Option 3 ID :	4410095154562
Option 4 ID :	4410095154561
Status :	Answered
Chosen Option :	A

Q.4	Select the option where the given sentence has been correctly converted to the Active Voice: Is the report being prepared ?
Ans	✘ A. Have they prepared the report?
	✘ B. Will they prepare the report?
	✘ C. Do they prepare the report?
	✔ D. Are they preparing the report?

Question ID :	4410092306033
Option 1 ID :	4410099069682
Option 2 ID :	4410099069683
Option 3 ID :	4410099069680
Option 4 ID :	4410099069681
Status :	Answered
Chosen Option :	D

Q.5 Choose the most appropriate synonym of the underlined word from the options given below.

The minister’s speech was filled with bombastic language that lacked real substance.

- Ans

A. Quiet
- B. Queer
- C. Rhapsodic
- D. Zealous

Question ID :	441009289976
Option 1 ID :	4410091126852
Option 2 ID :	4410091126853
Option 3 ID :	4410091126854
Option 4 ID :	4410091126855
Status :	Answered
Chosen Option :	C

Q.6 Arrange the following to form a grammatically correct sentence:
P: had been overlooked in earlier analyses
Q: the subtle thematic patterns
R: a deeper layer of meaning revealed that
S: upon closer examination of the text

- Ans

A. S Q R P
- B. Q R S P
- C. S R Q P
- D. P S Q R

Question ID :	4410092220892
Option 1 ID :	4410098739217
Option 2 ID :	4410098739215
Option 3 ID :	4410098739214
Option 4 ID :	4410098739216
Status :	Answered
Chosen Option :	C

Q.7 From the fragments below, which order most coherently expresses a logical sequence?-

(A) despite the preliminary evidence supporting the original framework
(B) necessitating a series of methodological revisions
(C) the experimental design was subsequently modified
(D) when unforeseen variables began to influence the reliability of the findings

- | | |
|-----|------------------|
| Ans | ✔ A. A, C, D, B, |
| | ✘ B. A, B, C, D |
| | ✘ C. A, C, B, D |
| | ✘ D. A, D, C, B |

Question ID :	4410092220888
Option 1 ID :	4410098739198
Option 2 ID :	4410098739200
Option 3 ID :	4410098739199
Option 4 ID :	4410098739201
Status :	Answered
Chosen Option :	A

Q.8 Select the wrongly spelt word from the alternatives given below.

- | | |
|-----|------------------|
| Ans | ✘ A. Exoneration |
| | ✔ B. Opponancy |
| | ✘ C. Arsenic |
| | ✘ D. Rabbinic |

Question ID :	4410094058
Option 1 ID :	44100916153
Option 2 ID :	44100916152
Option 3 ID :	44100916154
Option 4 ID :	44100916151
Status :	Answered
Chosen Option :	A

Q.9	Select the option that completes the sentence appropriately.
	Ravi said that he _____ that book ____.
Ans	☒ A. was reading / then
	☒ B. had been reading / now
	☒ C. was reading / now
	☒ D. had read / now

Question ID :	4410091311996
Option 1 ID :	4410095179665
Option 2 ID :	4410095179667
Option 3 ID :	4410095179664
Option 4 ID :	4410095179666
Status :	Answered
Chosen Option :	D

Q.10	Select the one word that substitutes for the underlined words: Meera liked Krishna because she found him to be ' <u>A person who is skilled in several arts.</u> '
Ans	☒ A. Novice
	☒ B. Dilettante
	☒ C. Polymath
	☒ D. Specialist

Question ID :	4410092220884
Option 1 ID :	4410098739182
Option 2 ID :	4410098739185
Option 3 ID :	4410098739183
Option 4 ID :	4410098739184
Status :	Answered
Chosen Option :	B

Q.11	Select the most appropriate option to fill in the blanks. If no article is required, select the option with 'No article required'. They were looking for ____17-year-old girl wearing _____ pair of blue shoes.
Ans	✔ A. a; a ✘ B. a; No article required ✘ C. No article required; an ✘ D. an; a

Question ID :	441009126998
Option 1 ID :	441009504678
Option 2 ID :	441009504681
Option 3 ID :	441009504680
Option 4 ID :	441009504679
Status :	Answered
Chosen Option :	A

Q.12	Select the most appropriate meaning of the given idiom. Herculean task
Ans	✔ A. a difficult task that requires a huge amount of effort ✘ B. a task or a puzzle that is extremely confusing ✘ C. a task with an urgent deadline ✘ D. a task that is fun and enjoyable

Question ID :	441009230312
Option 1 ID :	441009900072
Option 2 ID :	441009900071
Option 3 ID :	441009900073
Option 4 ID :	441009900074
Status :	Answered
Chosen Option :	A

Q.13	A sentence with a grammatical error is given here. Select the option that will rectify this error. Her research differed with the established theory on several key points.
Ans	✔ A. Her research differed from the established theory on several key points.
	✘ B. Her research differed than the established theory on several key points.
	✘ C. Her research differed against the established theory on several key points.
	✘ D. Her research differed to the established theory on several key points.

Question ID :	4410091648024
Option 1 ID :	4410096508361
Option 2 ID :	4410096508360
Option 3 ID :	4410096508359
Option 4 ID :	4410096508362
Status :	Answered
Chosen Option :	A

Q.14	Choose the most appropriate option that has the same meaning as the given group of words: to steal a march on someone
Ans	✘ A. To secretly follow someone and copy their strategy without their knowledge
	✘ B. To physically take something from someone while they are distracted during a parade or procession
	✘ C. To deliberately delay your own actions so that the other person makes the first mistake
	✔ D. To gain advantage over someone by acting earlier or more quickly than they do

Question ID :	4410092302779
Option 1 ID :	4410099056717
Option 2 ID :	4410099056716
Option 3 ID :	4410099056719
Option 4 ID :	4410099056718
Status :	Answered
Chosen Option :	A

Q.15	Select the option that rectifies the error in the given sentence. By the time the lecture began, most students have already found their seats.
Ans	✖ A. already find their seats.
	✖ B. By the times
	✔ C. most students had
	✖ D. the lecture begin,

Question ID :	4410091778496
Option 1 ID :	4410097013354
Option 2 ID :	4410097013351
Option 3 ID :	4410097013353
Option 4 ID :	4410097013352
Status :	Answered
Chosen Option :	C

Q.16	Identify the error in the given sentence and choose the option that is the rectified version. This time next Saturday, I will relax in my new house.
Ans	✔ A. This time next Saturday, I will be relaxing in my new house.
	✖ B. This time next Saturday, I am relaxing in my new house.
	✖ C. This time next Saturday, I will have relaxed in my new house.
	✖ D. This time next Saturday, I relax in my new house.

Question ID :	4410092302002
Option 1 ID :	4410099053726
Option 2 ID :	4410099053723
Option 3 ID :	4410099053725
Option 4 ID :	4410099053724
Status :	Answered
Chosen Option :	A

Q.17	Choose the correct one-word for the group of words given below.- a fear or dislike of foreign people, customs, or cultures
Ans	✖ A. Misanthropy
	✔ B. Xenophobia
	✖ C. Philology
	✖ D. Cynophobia

Question ID :	4410092220887
Option 1 ID :	4410098739196
Option 2 ID :	4410098739194
Option 3 ID :	4410098739197
Option 4 ID :	4410098739195
Status :	Answered
Chosen Option :	B

Q.18

Choose the most appropriate option from the given choices to correctly complete the sentence.

The research paper was praised for its originality, but it was criticized because _____ its theoretical framework _____ its empirical analysis met the expected standards.

Ans

✖

A. not only; but also

✖

B. either; or

✔

C. neither; nor

✖

D. neither; or

Question ID :

4410091560963

Option 1 ID :

4410096166065

Option 2 ID :

4410096166063

Option 3 ID :

4410096166062

Option 4 ID :

4410096166064

Status :

Answered

Chosen Option :

C

Q.19

Select the best completion for the indirect speech conversion of the given sentence.
She asked, 'Why did you not attend the seminar last Friday?'
She asked why _____.

Ans

✖

A. I have not attended the seminar that Friday

✖

B. I do not attend the seminar the previous Friday

✖

C. I did not attend the seminar last Friday

✔

D. I had not attended the seminar the previous Friday

Question ID :

4410092220876

Option 1 ID :

4410098739152

Option 2 ID :

4410098739150

Option 3 ID :

4410098739151

Option 4 ID :

4410098739153

Status :

Answered

Chosen Option :

D

Q.20 Select the most appropriate option to fill in the blanks. If no article is required, select the option with 'No article required'.

The symposium opened with ___ incisive critique of postcolonial theory and concluded with ___ ambitious rethinking of ecological ethics.

- Ans

A. No article required; No article required

B. an; an

C. an; No article required

D. a; an

Question ID :	4410091292000
Option 1 ID :	4410095100083
Option 2 ID :	4410095100081
Option 3 ID :	4410095100082
Option 4 ID :	4410095100080
Status :	Answered
Chosen Option :	C

Comprehension:

	Comprehension:
	Read the given passage and answer the questions that follow. The First Wave of Feminism emerged in the late 19 th and early 20 th centuries as a significant social and political movement aimed at securing basic legal rights for women. It was primarily focused on issues such as women's suffrage, property rights, and access to education. This movement developed in response to widespread gender inequality, where women were largely excluded from political participation and denied legal autonomy. One of the central goals of the movement was the right to vote, which became a powerful symbol of equality and citizenship. Activists organized campaigns, protests, and petitions to demand suffrage. In countries like the United States and the United Kingdom, the movement gained momentum through the efforts of prominent leaders such as Susan B. Anthony and Emmeline Pankhurst. Their advocacy helped bring women's issues into mainstream political discourse. The First Wave was largely driven by middle-class women and often focused on legal reforms rather than broader social change. While it achieved important victories—such as women gaining the right to vote in several countries—it did not fully address issues related to race, class, and working conditions. As a result, its impact was both transformative and limited. Despite its shortcomings, the First Wave laid the foundation for future feminist movements. It established the importance of collective action and highlighted the need for gender equality in public life. Its legacy continues to influence contemporary discussions on women's rights and social justice.

	SubQuestion No : 22
Q.22	What can be inferred about the First Wave of Feminism?
Ans	A. It ignored the issue of voting rights
	B. It focused mainly on legal and political rights
	C. It addressed all forms of inequality equally
	D. It was led entirely by working-class women

Question ID :	4410091872585
Option 1 ID :	4410097377955
Option 2 ID :	4410097377956
Option 3 ID :	4410097377954
Option 4 ID :	4410097377957
Status :	Answered
Chosen Option :	B

	Comprehension:
	Read the given passage and answer the questions that follow. The First Wave of Feminism emerged in the late 19 th and early 20 th centuries as a significant social and political movement aimed at securing basic legal rights for women. It was primarily focused on issues such as women's suffrage, property rights, and access to education. This movement developed in response to widespread gender inequality, where women were largely excluded from political participation and denied legal autonomy. One of the central goals of the movement was the right to vote, which became a powerful symbol of equality and citizenship. Activists organized campaigns, protests, and petitions to demand suffrage. In countries like the United States and the United Kingdom, the movement gained momentum through the efforts of prominent leaders such as Susan B. Anthony and Emmeline Pankhurst. Their advocacy helped bring women's issues into mainstream political discourse. The First Wave was largely driven by middle-class women and often focused on legal reforms rather than broader social change. While it achieved important victories—such as women gaining the right to vote in several countries—it did not fully address issues related to race, class, and working conditions. As a result, its impact was both transformative and limited. Despite its shortcomings, the First Wave laid the foundation for future feminist movements. It established the importance of collective action and highlighted the need for gender equality in public life. Its legacy continues to influence contemporary discussions on women's rights and social justice.

	SubQuestion No : 23	
Q.23	Which of the following is a fact mentioned in the passage?	
Ans	 A. The First Wave ended all gender inequality across the world	
	 B. The movement achieved voting rights for women in several countries	
	 C. Women had full political rights before the movement even the right to vote	
	 D. It was led only by men who believed in equality in the society	

Question ID :	4410091872586
Option 1 ID :	4410097377959
Option 2 ID :	4410097377958
Option 3 ID :	4410097377960
Option 4 ID :	4410097377961
Status :	Answered
Chosen Option :	B

	Comprehension:
	Read the given passage and answer the questions that follow. The First Wave of Feminism emerged in the late 19 th and early 20 th centuries as a significant social and political movement aimed at securing basic legal rights for women. It was primarily focused on issues such as women's suffrage, property rights, and access to education. This movement developed in response to widespread gender inequality, where women were largely excluded from political participation and denied legal autonomy. One of the central goals of the movement was the right to vote, which became a powerful symbol of equality and citizenship. Activists organized campaigns, protests, and petitions to demand suffrage. In countries like the United States and the United Kingdom, the movement gained momentum through the efforts of prominent leaders such as Susan B. Anthony and Emmeline Pankhurst. Their advocacy helped bring women's issues into mainstream political discourse. The First Wave was largely driven by middle-class women and often focused on legal reforms rather than broader social change. While it achieved important victories—such as women gaining the right to vote in several countries—it did not fully address issues related to race, class, and working conditions. As a result, its impact was both transformative and limited. Despite its shortcomings, the First Wave laid the foundation for future feminist movements. It established the importance of collective action and highlighted the need for gender equality in public life. Its legacy continues to influence contemporary discussions on women's rights and social justice.

	SubQuestion No : 24	
Q.24	What is a limitation of the First Wave as discussed in the passage?	
Ans	 A. It rejected political participation	
	 B. It ignored issues of race and class	
	 C. It opposed education for women	
	 D. It failed to gain any legal rights	

Question ID :	4410091872587
Option 1 ID :	4410097377965
Option 2 ID :	4410097377963
Option 3 ID :	4410097377964
Option 4 ID :	4410097377962
Status :	Answered
Chosen Option :	B

	Comprehension:
	Read the given passage and answer the questions that follow. The First Wave of Feminism emerged in the late 19 th and early 20 th centuries as a significant social and political movement aimed at securing basic legal rights for women. It was primarily focused on issues such as women's suffrage, property rights, and access to education. This movement developed in response to widespread gender inequality, where women were largely excluded from political participation and denied legal autonomy. One of the central goals of the movement was the right to vote, which became a powerful symbol of equality and citizenship. Activists organized campaigns, protests, and petitions to demand suffrage. In countries like the United States and the United Kingdom, the movement gained momentum through the efforts of prominent leaders such as Susan B. Anthony and Emmeline Pankhurst. Their advocacy helped bring women's issues into mainstream political discourse. The First Wave was largely driven by middle-class women and often focused on legal reforms rather than broader social change. While it achieved important victories—such as women gaining the right to vote in several countries—it did not fully address issues related to race, class, and working conditions. As a result, its impact was both transformative and limited. Despite its shortcomings, the First Wave laid the foundation for future feminist movements. It established the importance of collective action and highlighted the need for gender equality in public life. Its legacy continues to influence contemporary discussions on women's rights and social justice.

	SubQuestion No : 25
Q.25	What is the structure of the passage?
Ans	A. Cause–Effect–Solution
	B. Definition–Explanation–Evaluation
	C. Chronological–Descriptive
	D. Problem–Solution–Conclusion

Question ID :	4410091872588
Option 1 ID :	4410097377968
Option 2 ID :	4410097377966
Option 3 ID :	4410097377967
Option 4 ID :	4410097377969
Status :	Answered
Chosen Option :	A

Section : Part 5 Domain Knowledge

Q.1	What is the initial value of top in an empty stack implemented using an array?
Ans	A. 0
	B. -1
	C. 1
	D. Depends on stack size

Question ID :	44100976729
Option 1 ID :	441009305057
Option 2 ID :	441009305059
Option 3 ID :	441009305058
Option 4 ID :	441009305060
Status :	Answered
Chosen Option :	A

Q.2	A banking transaction commits successfully, but a system crash occurs immediately afterward. Which mechanism ensures durability?
Ans	A. Locking
	B. Partial commit
	C. Transaction isolation
	D. Redo log

Question ID :	4410091360411
Option 1 ID :	4410095373707
Option 2 ID :	4410095373708
Option 3 ID :	4410095373705
Option 4 ID :	4410095373706
Status :	Answered
Chosen Option :	C

Q.3	Consider a finite state transducer (FST) with $Q = \{q_0, q_1\}$, $\Sigma = \{0, 1\}$, $\Gamma = \{a, b, c\}$, initial state q_0 , and the following transitions: $\delta(q_0, 0) = q_1, \delta(q_0, 1) = q_0$ $\delta(q_1, 0) = q_0, \delta(q_1, 1) = q_1$ and output function: $\theta(q_0, 0) = a, \theta(q_0, 1) = c$ $\theta(q_1, 0) = b, \theta(q_1, 1) = a$ What will be the output string for the input 1010?
Ans	A. abac
	B. caba
	C. caab
	D. acab

Question ID :	4410091393259
Option 1 ID :	4410095502674
Option 2 ID :	4410095502675
Option 3 ID :	4410095502677
Option 4 ID :	4410095502676
Status :	Answered
Chosen Option :	C

Q.4	In a memory system with fixed-sized partitions, each holding one process (as in IBM OS/360 MFT). Which statement is correct?
Ans	☒ A. Multiprogramming limited; internal fragmentation possible
	☒ B. Each partition holds multiple processes
	☒ C. Multiprogramming is unlimited
	☒ D. Partition size adjusts dynamically

Question ID :	4410091358411
Option 1 ID :	4410095365798
Option 2 ID :	4410095365797
Option 3 ID :	4410095365796
Option 4 ID :	4410095365799
Status :	Answered
Chosen Option :	A

Q.5	The minimized Deterministic Finite State Machine (DFSM) in theory of computation for a language always has:
Ans	☒ A. Equal number of final and non-final states
	☒ B. Exactly one final state
	☒ C. The minimum number of states possible for that language
	☒ D. The same number of states as the NFA

Question ID :	4410091210296
Option 1 ID :	4410094774688
Option 2 ID :	4410094774686
Option 3 ID :	4410094774687
Option 4 ID :	4410094774689
Status :	Answered
Chosen Option :	B

Q.6	Suppose an array contains N elements. Which of the following best represents the time complexity of traversing every alternate element?
Ans	☒ A. $O(N^2)$
	☒ B. $O(1)$
	☒ C. $O(\log N)$
	☒ D. $O(N)$

Question ID :	4410092215471
Option 1 ID :	4410098718025
Option 2 ID :	4410098718022
Option 3 ID :	4410098718024
Option 4 ID :	4410098718023
Status :	Answered
Chosen Option :	D

Q.7	Consider an FSM that accepts all strings over {a, b} with an even number of a's. Which regular expression corresponds to it?
Ans	A. $(a+b)^*a(a+b)^*(a+b)$
	B. $(a+b)^*a(a+b)^*(b+c)$
	C. $(b^*(ab^*ab^*))^*$
	D. $(b^*ab^*)^*$

Question ID :	4410091210303
Option 1 ID :	4410094774716
Option 2 ID :	4410094774717
Option 3 ID :	4410094774715
Option 4 ID :	4410094774714
Status :	Answered
Chosen Option :	C

Q.8	What will happen if a process with a higher priority arrives in the ready queue in preemptive scheduling algorithm?
Ans	A. The CPU switches to the new process only if it has a smaller burst time.
	B. It pauses for the current process to finish its CPU burst.
	C. The scheduler compares the total execution times of all processes.
	D. The currently running process is immediately removed from the CPU.

Question ID :	4410091337130
Option 1 ID :	4410095280289
Option 2 ID :	4410095280287
Option 3 ID :	4410095280290
Option 4 ID :	4410095280288
Status :	Answered
Chosen Option :	D

Q.9	Which of the following best describes the interaction between CPU and DMA during block transfer?
Ans	A. CPU and DMA alternate each word transfer over the bus
	B. CPU sends control information once, then DMA handles the transfer independently
	C. CPU supervises every byte of transfer to ensure correctness
	D. CPU transfers data to cache, DMA transfers it to I/O

Question ID :	4410091345122
Option 1 ID :	4410095313166
Option 2 ID :	4410095313165
Option 3 ID :	4410095313164
Option 4 ID :	4410095313167
Status :	Answered
Chosen Option :	B

Q.10	What do you mean by TLD name servers?
Ans	✖ A. Top-level disk name servers
	✖ B. Tiered-level domain name servers
	✔ C. Top-level domain name servers
	✖ D. Task-levelled data name servers

Question ID :	4410091439587
Option 1 ID :	4410095687015
Option 2 ID :	4410095687013
Option 3 ID :	4410095687012
Option 4 ID :	4410095687014
Status :	Answered
Chosen Option :	D

Q.11	Which of the following Windows API functions is used to write data to a file?
Ans	✖ A. fprintf()
	✔ B. WriteFile()
	✖ C. CreateFile()
	✖ D. fwrite()

Question ID :	4410091186134
Option 1 ID :	4410094678834
Option 2 ID :	4410094678832
Option 3 ID :	4410094678831
Option 4 ID :	4410094678833
Status :	Answered
Chosen Option :	D

Q.12	If a D Flip-Flop has D = 1 and a rising edge of the clock occurs, what will the Q output be <u>with reference to Sequential Circuits</u> ?
Ans	✖ A. Undefined
	✔ B. 1
	✖ C. Toggle
	✖ D. 0

Question ID :	4410091431266
Option 1 ID :	4410095653357
Option 2 ID :	4410095653355
Option 3 ID :	4410095653356
Option 4 ID :	4410095653354
Status :	Answered
Chosen Option :	C

Q.13	What does a node in a singly linked list typically contain?
Ans	A. A pointer only

Question ID :	441009260694
Option 1 ID :	4410091016192
Option 2 ID :	4410091016193
Option 3 ID :	4410091016191
Option 4 ID :	4410091016194
Status :	Answered
Chosen Option :	D

Q.14	Which of the following is an application of compiler technology?
Ans	A. Code optimization

Question ID :	4410091188167
Option 1 ID :	4410094686922
Option 2 ID :	4410094686925
Option 3 ID :	4410094686923
Option 4 ID :	4410094686924
Status :	Answered
Chosen Option :	A

Q.15	Which technique is commonly used by a compiler to recognize identifiers in a programming language?
Ans	A. Regular expressions and finite automata

Question ID :	4410091377116
Option 1 ID :	4410095440019
Option 2 ID :	4410095440021
Option 3 ID :	4410095440022
Option 4 ID :	4410095440020
Status :	Answered
Chosen Option :	C

Q.19	In paging, the page table is used to:
Ans	✔ A. Map logical pages to physical frames
	✘ B. Store the physical addresses of all processes
	✘ C. Keep track of free frames only
	✘ D. Handle external fragmentation

Question ID :	4410091433461
Option 1 ID :	4410095662404
Option 2 ID :	4410095662403
Option 3 ID :	4410095662405
Option 4 ID :	4410095662406
Status :	Answered
Chosen Option :	B

Q.20	Which of the following is true about Selection Sort?
Ans	✘ A. It is a stable sorting algorithm.
	✘ B. It is an adaptive sorting algorithm.
	✔ C. It has $O(n^2)$ time complexity in all cases.
	✘ D. It performs well on large datasets.

Question ID :	44100978136
Option 1 ID :	441009310530
Option 2 ID :	441009310533
Option 3 ID :	441009310532
Option 4 ID :	441009310531
Status :	Answered
Chosen Option :	C

Q.21	During a content search operation in associative memory, which register temporarily holds the key used to compare against all stored memory words simultaneously?
Ans	✔ A. Argument Register
	✘ B. Data Register
	✘ C. Program Counter
	✘ D. Accumulator

Question ID :	4410091375130
Option 1 ID :	4410095431828
Option 2 ID :	4410095431826
Option 3 ID :	4410095431827
Option 4 ID :	4410095431829
Status :	Answered
Chosen Option :	D

Q.22	Which of the following is the correct symbol for representing the decimal number 12 in hexadecimal system?
Ans	A. D
	B. A
	C. C
	D. B

Question ID :	44100978208
Option 1 ID :	441009310843
Option 2 ID :	441009310840
Option 3 ID :	441009310842
Option 4 ID :	441009310841
Status :	Answered
Chosen Option :	C

Q.23	In a circular queue using arrays, the rear is at index 4, front is at index 2, and capacity = 5. Which expression checks if the queue is full?
Ans	A. (rear == front - 1)
	B. (rear == front)
	C. (rear + 1 == front)
	D. ((rear + 1) % capacity == front)

Question ID :	441009271221
Option 1 ID :	4410091053720
Option 2 ID :	4410091053722
Option 3 ID :	4410091053719
Option 4 ID :	4410091053721
Status :	Answered
Chosen Option :	A

Q.24 Consider a Mealy machine designed to process a sequence representing the presence of mineral samples ('M') and non-mineral samples ('N') during a geological survey. The machine outputs 'A' when the current sample is 'M' and the previous sample was 'N', otherwise it outputs 'B'. Which description below correctly reflects the machine's output behavior?

- Ans ☒ A. It produces output based on both the current input and the previous state.
- ☐ B. It changes output only when the input switches from 'M' to 'N'.
- ☐ C. It produces output based only on the current input symbol.
- ☐ D. It waits until the next transition to output a value.

Question ID :	4410092215504
Option 1 ID :	4410098718156
Option 2 ID :	4410098718154
Option 3 ID :	4410098718157
Option 4 ID :	4410098718155
Status :	Answered
Chosen Option :	A

Q.25 In an associative memory system, the argument register is used to:

- Ans ☐ A. Generate memory addresses sequentially
- ☐ B. Store the result of a match
- ☒ C. Compare with key fields in all memory locations simultaneously
- ☐ D. Hold data to be written into memory

Question ID :	441009220121
Option 1 ID :	441009863454
Option 2 ID :	441009863451
Option 3 ID :	441009863453
Option 4 ID :	441009863452
Status :	Answered
Chosen Option :	D

Q.26 Which of the following is not a property of a discrete random variable X, that takes any value from 0, 1, 2,...,n?

- Ans ☒ A. $P(X = n) < 0$
- ☐ B. $\sum P(X = x) = 1$, the summation is taken over all possible values of X
- ☐ C. If A and B are two disjoint subsets of {0, 1, 2, ...,n} then $P(A + B) = P(A) + P(B)$
- ☐ D. For any possible value of X, $P(X = x) \geq 0$

Question ID :	4410092231174
Option 1 ID :	4410098778132
Option 2 ID :	4410098778133
Option 3 ID :	4410098778134
Option 4 ID :	4410098778131
Status :	Answered
Chosen Option :	D

Q.27	Which of the following is not a connection-oriented service?
Ans	A. Reliable byte-stream delivery.
	B. Maintain frame sequencing.
	C. Stateless packet forwarding.
	D. Perform a Handshake to set up the connection.

Question ID :	4410091438628
Option 1 ID :	4410095683214
Option 2 ID :	4410095683216
Option 3 ID :	4410095683213
Option 4 ID :	4410095683215
Status :	Answered
Chosen Option :	C

Q.28	In the context of programming languages, if a compiler can determine the scope of a declaration by examining the program text alone, the language is said to use:
Ans	A. Dynamic policy and lexical scope
	B. Dynamic policy and dynamic scope
	C. Static policy and dynamic scope
	D. Static policy and lexical scope

Question ID :	4410091398403
Option 1 ID :	4410095523368
Option 2 ID :	4410095523369
Option 3 ID :	4410095523371
Option 4 ID :	4410095523370
Status :	Answered
Chosen Option :	D

Q.29 Which statement correctly defines the regular expressions?
Statement-1: Regular expressions representation doesn't involve a combination of strings of symbols from some alphabet Σ , parentheses and the operators +, $\times$, and $*$.
Statement-2: A regular expression is not obtained from the symbol $\{a, b, c\}$, empty string ϵ , and empty-set Φ perform the operations +, $\times$ and $*$ (union, concatenation and Kleene star).

- Ans ☐ A. Statement-1 is True and Statement-2 is False
- ☒ B. Statement-1 is False and Statement-2 is False
- ☐ C. Statement-1 is False and Statement-2 is True
- ☐ D. Statement-1 is True and Statement-2 is True

Question ID :	4410091449312
Option 1 ID :	4410095725694
Option 2 ID :	4410095725696
Option 3 ID :	4410095725695
Option 4 ID :	4410095725697
Status :	Answered
Chosen Option :	B

Q.30 Which of the following is a necessary condition for a function $f: A \rightarrow B$ to be invertible?

- Ans ☐ A. f must be only onto
- ☐ B. f can be neither one-to-one nor onto
- ☒ C. f must be both one-to-one and onto
- ☐ D. f must be only one-to-one

Question ID :	4410092319300
Option 1 ID :	4410099121632
Option 2 ID :	4410099121629
Option 3 ID :	4410099121630
Option 4 ID :	4410099121631
Status :	Answered
Chosen Option :	C

Q.31	What does the read() system call in an operating system do?
Ans	A. Blocks until the requested number of bytes is read
	B. Copies data directly from device hardware into user space without kernel intervention
	C. Runs entirely in user mode for performance
	D. Copies data from kernel space to user space, possibly after reading from device buffers

Question ID :	4410091187728
Option 1 ID :	4410094685225
Option 2 ID :	4410094685222
Option 3 ID :	4410094685223
Option 4 ID :	4410094685224
Status :	Answered
Chosen Option :	C

Q.32	Given a Mealy machine where state q on input 1 outputs 0 and transitions to state p, converting to a Moore machine requires:-
Ans	A. No change is needed
	B. Splitting p into two states with different outputs
	C. Adding epsilon transitions
	D. Outputting 0 immediately on entering ppp

Question ID :	441009876314
Option 1 ID :	4410093458869
Option 2 ID :	4410093458871
Option 3 ID :	4410093458870
Option 4 ID :	4410093458868
Status :	Answered
Chosen Option :	B

Q.33	What does each row in a relational table represent?
Ans	A. Column
	B. Attribute
	C. Domain
	D. Tuple

Question ID :	4410091381089
Option 1 ID :	4410095455551
Option 2 ID :	4410095455549
Option 3 ID :	4410095455552
Option 4 ID :	4410095455550
Status :	Answered
Chosen Option :	D

Q.34	Which parsing method uses a stack to store symbols and reduces them when a right-hand side pattern is recognized?
Ans	✖ A. Top-Down Parsing
	✖ B. Predictive Parsing
	✔ C. Shift-Reduce Parsing
	✖ D. Recursive Descent Parsing

Question ID :	4410091377155
Option 1 ID :	4410095440178
Option 2 ID :	4410095440175
Option 3 ID :	4410095440177
Option 4 ID :	4410095440176
Status :	Answered
Chosen Option :	C

Q.35	Which of the following statements best distinguishes the relationship between a service and a protocol in a layered network architecture?
Ans	✔ A. A service specifies what operations a layer offers to the layer above, whereas a protocol defines how peer entities within the same layer communicate to provide that service.
	✖ B. A protocol defines the interface between two adjacent layers, while a service specifies the message exchange rules between peer entities.
	✖ C. Both services and protocols define the message formats and meanings used between the same layer entities, but at different abstraction levels.
	✖ D. A service is the physical implementation of a protocol; thus, changing the protocol automatically changes the provided service.

Question ID :	4410091445831
Option 1 ID :	4410095711962
Option 2 ID :	4410095711961
Option 3 ID :	4410095711963
Option 4 ID :	4410095711964
Status :	Answered
Chosen Option :	D

Q.36	What shape is commonly used to represent an entity in an ER diagram?
Ans	☒ A. Rectangle
	☐ B. Diamond
	☐ C. Triangle
	☐ D. Ellipse

Question ID :	4410091381085
Option 1 ID :	4410095455535
Option 2 ID :	4410095455536
Option 3 ID :	4410095455533
Option 4 ID :	4410095455534
Status :	Answered
Chosen Option :	A

Q.37	What we called to the part of an instruction that specifies the operation to be performed?
Ans	☒ A. Opcode
	☐ B. Comment
	☐ C. Operand
	☐ D. Label

Question ID :	4410091427591
Option 1 ID :	4410095638867
Option 2 ID :	4410095638869
Option 3 ID :	4410095638866
Option 4 ID :	4410095638868
Status :	Answered
Chosen Option :	C

Q.38	The hardware organization of associative memory consists of:
Ans	☐ A. Argument Register(A), Key Register(K) and Match Register(M) Only
	☐ B. Argument Register(A), Memory Array Logic and Match Register(M) Only
	☒ C. Memory Array Logic, Argument Register(A), Key Register(K) and Match Register(M)
	☐ D. Memory Array Logic, Key Register(K) and Match Register(M) Only

Question ID :	4410091329507
Option 1 ID :	4410095249577
Option 2 ID :	4410095249579
Option 3 ID :	4410095249580
Option 4 ID :	4410095249578
Status :	Answered
Chosen Option :	C

Q.39	What makes a finite automaton deterministic?
Ans	A. It can accept infinite input B. For each state and input, there is exactly one transition C. It has no start state

D. It can have multiple transitions for the same input

Question ID :	4410091400927
Option 1 ID :	4410095533317
Option 2 ID :	4410095533316
Option 3 ID :	4410095533314
Option 4 ID :	4410095533315
Status :	Answered
Chosen Option :	B

Q.40	Which of the following correctly represents the cofactor expansion of a 3x3 determinant along the first row?
Ans	A. Sum of only diagonal elements times their cofactors B. Sum of elements of the first column times their cofactors C. Sum of each element of the first row times its corresponding cofactor

D. Difference of elements of the first row and their cofactors

Question ID :	4410092319372
Option 1 ID :	4410099121920
Option 2 ID :	4410099121917
Option 3 ID :	4410099121918
Option 4 ID :	4410099121919
Status :	Answered
Chosen Option :	C

Q.41	Consider a binary search tree (BST). Which one of the following properties is always true for an inorder traversal of the BST?
Ans	A. It gives the nodes in descending order of values of keys B. It only visits the leftmost and rightmost nodes C. It gives the nodes in random order of values of keys

D. It gives the nodes in ascending order of values of keys

Question ID :	441009750032
Option 1 ID :	4410092954002
Option 2 ID :	4410092954005
Option 3 ID :	4410092954003
Option 4 ID :	4410092954004
Status :	Answered
Chosen Option :	D

Q.42	Which of the following statements best reflects a comprehensive layered design issue in computer networks?
Ans	A. Once error control and sequencing are implemented at the data link layer, upper layers are exempt from such design considerations. B. Layered design primarily concerns selecting the physical transmission medium and ensuring minimal propagation delay across all layers. C. Each layer must handle key issues like addressing, error control, flow control, sequencing and data direction, ensuring reliable communication between entities without breaking layer abstraction. D. The design issues of addressing and error control are handled exclusively by the network layer, while flow control and sequencing are managed solely by the transport layer.

Question ID :	4410091445827
Option 1 ID :	4410095711952
Option 2 ID :	4410095711949
Option 3 ID :	4410095711950
Option 4 ID :	4410095711951
Status :	Answered
Chosen Option :	C

Q.43	What is the space complexity of an algorithm that uses only a constant amount of memory regardless of input size?
Ans	A. $O(n)$ B. $O(n^2)$ C. $O(\log n)$ D. $O(1)$

Question ID :	44100977522
Option 1 ID :	441009308022
Option 2 ID :	441009308024
Option 3 ID :	441009308023
Option 4 ID :	441009308021
Status :	Answered
Chosen Option :	D

Q.44	Define thrashing in an operating system.
Ans	A. A read-write operation failure
	B. Excessive swapping of pages in and out of memory
	C. A process being started abnormally
	D. A deadlock occurring in memory allocation

Question ID :	44100974879
Option 1 ID :	441009297796
Option 2 ID :	441009297797
Option 3 ID :	441009297794
Option 4 ID :	441009297795
Status :	Answered
Chosen Option :	B

Q.45	Given two random variables X and Y with $E(X) = 2$, $E(Y) = 3$, and $E(XY) = 10$, what is the covariance of X and Y?
Ans	A. 1
	B. 5
	C. 4
	D. 6

Question ID :	4410092319377
Option 1 ID :	4410099121937
Option 2 ID :	4410099121940
Option 3 ID :	4410099121939
Option 4 ID :	4410099121938
Status :	Answered
Chosen Option :	C

Q.46	The entity integrity constraint ensures that:
Ans	A. All attribute values must belong to the same domain
	B. Each tuple must reference at least one other tuple
	C. No primary key value can be NULL
	D. No foreign key value can be NULL

Question ID :	4410091316882
Option 1 ID :	4410095199088
Option 2 ID :	4410095199087
Option 3 ID :	4410095199089
Option 4 ID :	4410095199086
Status :	Answered
Chosen Option :	A

Q.47	Which of the following is NOT a common design issue that needs to be addressed in each layer of a computer network?
Ans	☒ A. Determining the color scheme of the user interface
	☐ B. Data transmission and error control
	☐ C. Addressing and identifying devices on the network
	☐ D. Flow control and sequencing of data

Question ID :	4410091433568
Option 1 ID :	4410095662823
Option 2 ID :	4410095662822
Option 3 ID :	4410095662821
Option 4 ID :	4410095662824
Status :	Answered
Chosen Option :	A

Q.48	LR Parsing is known for being:
Ans	☐ A. Non-deterministic always
	☐ B. Top-down parsing
	☐ C. Left-recursive only
	☒ D. Bottom-up parsing

Question ID :	4410091381377
Option 1 ID :	4410095456710
Option 2 ID :	4410095456708
Option 3 ID :	4410095456709
Option 4 ID :	4410095456711
Status :	Answered
Chosen Option :	C

Q.49	Which of the following statements correctly differentiates connection-oriented from connectionless services?
Ans	☐ A. Connectionless has higher overhead; connection-oriented has minimal.
	☒ B. Connection-oriented ensures reliability and order; connectionless may not.
	☐ C. Connection-oriented sends data without a connection; connectionless requires one.
	☐ D. Both perform error checking and retransmission.

Question ID :	4410091358661
Option 1 ID :	4410095366806
Option 2 ID :	4410095366805
Option 3 ID :	4410095366804
Option 4 ID :	4410095366807
Status :	Answered
Chosen Option :	B

Q.50	Which of the following best describes an empty set?
Ans	✖ A. A set that contains zero as an element
	✖ B. A set that has one element
	✔ C. A set that has no elements
	✖ D. A set that contains all elements from a given universal set

Question ID :	4410092319316
Option 1 ID :	4410099121693
Option 2 ID :	4410099121696
Option 3 ID :	4410099121694
Option 4 ID :	4410099121695
Status :	Answered
Chosen Option :	C

Q.51	_____ is NOT a valid token typically generated by a lexical analyzer.
Ans	✖ A. Compiler
	✖ B. Keyword
	✔ C. Parser
	✖ D. Variable

Question ID :	4410091427603
Option 1 ID :	4410095638914
Option 2 ID :	4410095638917
Option 3 ID :	4410095638916
Option 4 ID :	4410095638915
Status :	Answered
Chosen Option :	C

Q.52	In SRTF (Shortest Remaining Time First) scheduling, which process is selected next?
Ans	✖ A. One with the highest priority
	✔ B. One with the shortest remaining burst time
	✖ C. One with the longest burst time
	✖ D. One that arrives first

Question ID :	4410091186159
Option 1 ID :	4410094678890
Option 2 ID :	4410094678889
Option 3 ID :	4410094678887
Option 4 ID :	4410094678888
Status :	Answered
Chosen Option :	B

Q.53	In a circular queue implemented using an array, how is the rear counter updated after an enqueue operation?
Ans	✖ A. Reset to zero unconditionally
	✖ B. No update to rear pointer is needed in the enqueue operation
	✖ C. The rear counter is incremented but never wrapped around to the start
	✔ D. Incremented and wrapped around to the start if needed

Question ID :	4410092215479
Option 1 ID :	4410098718057
Option 2 ID :	4410098718055
Option 3 ID :	4410098718056
Option 4 ID :	4410098718054
Status :	Answered
Chosen Option :	D

Q.54	If a measurement is recorded as 12.8 cm and the true value is 13.0 cm, what is the absolute error?
Ans	✖ A. 0 cm
	✔ B. 0.2 cm
	✖ C. 0.1 cm
	✖ D. 1.2 cm

Question ID :	4410092319380
Option 1 ID :	4410099121950
Option 2 ID :	4410099121952
Option 3 ID :	4410099121951
Option 4 ID :	4410099121949
Status :	Answered
Chosen Option :	B

Q.55	Given the 2D array <code>int arr[3][3] = {{1,2,3}, {4,5,6}, {7,8,9}};</code> , what is the value of <code>*(*(arr + 1) + 2)</code> ?
Ans	✔ A. 6
	✖ B. 3
	✖ C. 8
	✖ D. 5

Question ID :	441009235187
Option 1 ID :	441009919171
Option 2 ID :	441009919170
Option 3 ID :	441009919173
Option 4 ID :	441009919172
Status :	Answered
Chosen Option :	A

Q.56	What is the best approach to delete an element from an unsorted array?
Ans	✖ A. Sort the array and then delete
	✔ B. Replace the element with the last element and reduce the array size
	✖ C. Replace the element with 0
	✖ D. Shift all elements left after deletion

Question ID :	441009260688
Option 1 ID :	4410091016170
Option 2 ID :	4410091016169
Option 3 ID :	4410091016168
Option 4 ID :	4410091016167
Status :	Answered
Chosen Option :	C

Q.57	Which statement best describes both an advantage and a disadvantage of Insertion Sort?
Ans	✔ A. Efficient for nearly sorted data due to adaptability but impractical for large datasets due to $O(n^2)$ complexity.
	✖ B. Guarantees logarithmic time for sorted inputs but remains inefficient for small datasets as its complexity stays $O(n^2)$.
	✖ C. Performs optimally for any input type but lacks stability, failing to preserve the relative order of identical elements.
	✖ D. Fastest sorting algorithm for all inputs but requires excessive auxiliary space, making it unsuitable for memory-limited systems.

Question ID :	44100944938
Option 1 ID :	441009178973
Option 2 ID :	441009178976
Option 3 ID :	441009178975
Option 4 ID :	441009178974
Status :	Answered
Chosen Option :	A

Q.58	What is the purpose of the Root Name Server in the DNS hierarchy?
Ans	✖ A. It resolves domain names directly
	✔ B. It provides IP addresses of Authoritative Name Servers for Top-Level Domains (TLDs)
	✖ C. It caches DNS records for fast access
	✖ D. It assigns domain names

Question ID :	44100932857
Option 1 ID :	441009130652
Option 2 ID :	441009130653
Option 3 ID :	441009130654
Option 4 ID :	441009130655
Status :	Answered
Chosen Option :	B

Q.59	A system must recognize any number of consecutive 'a's. Which regular expression correctly models this?
Ans	A. ab^*
	B. a^*
	C. a^+
	D. $a^?$

Question ID :	4410091377043
Option 1 ID :	4410095439721
Option 2 ID :	4410095439719
Option 3 ID :	4410095439720
Option 4 ID :	4410095439722
Status :	Answered
Chosen Option :	C

Q.60	Which one of the following statements is true for a Hermitian matrix?
Ans	A. All elements are positive numbers
	B. All diagonal elements are real numbers
	C. Sum of diagonal elements is zero
	D. All entries are real numbers

Question ID :	4410092319371
Option 1 ID :	4410099121915
Option 2 ID :	4410099121914
Option 3 ID :	4410099121916
Option 4 ID :	4410099121913
Status :	Answered
Chosen Option :	B

Q.61	Which notation represents the worst-case time complexity?
Ans	A. Big Omega (Ω)
	B. Small o (o)
	C. Big O (O)
	D. Big Theta (Θ)

Question ID :	4410091470075
Option 1 ID :	4410095808226
Option 2 ID :	4410095808229
Option 3 ID :	4410095808228
Option 4 ID :	4410095808227
Status :	Answered
Chosen Option :	C

Q.62	Which constraint ensures that a foreign key value in one table either matches a primary key in another table or is NULL (if allowed) <u>in DBMS</u> ?
Ans	☒ A. Domain constraint
	☒ B. Key constraint
	☒ C. Entity integrity
	☒ D. Referential integrity

Question ID :	4410091432703
Option 1 ID :	4410095659299
Option 2 ID :	4410095659301
Option 3 ID :	4410095659298
Option 4 ID :	4410095659300
Status :	Answered
Chosen Option :	D

Q.63	In the context of algorithm design and analysis, which of the following represents the initial step in the design process?
Ans	☒ A. Implement the algorithm in a Computer programming language
	☒ B. Write the pseudocode
	☒ C. Analyze the algorithm time complexity
	☒ D. Define the problem clearly and specify the input output

Question ID :	4410091237207
Option 1 ID :	4410094882387
Option 2 ID :	4410094882385
Option 3 ID :	4410094882384
Option 4 ID :	4410094882386
Status :	Answered
Chosen Option :	D

Q.64	Which statement correctly differentiates between SRAM and DRAM?
Ans	☒ A. DRAM is faster and more expensive than SRAM
	☒ B. SRAM requires periodic refreshing; DRAM does not
	☒ C. SRAM is faster but more expensive than DRAM
	☒ D. Both have the same speed and cost

Question ID :	4410091396074
Option 1 ID :	4410095513953
Option 2 ID :	4410095513952
Option 3 ID :	4410095513954
Option 4 ID :	4410095513955
Status :	Answered
Chosen Option :	A

Q.65	In computer networks, what is the primary difference between a service and a protocol?
Ans	A. Both service and protocol define how operations are performed. B. A service defines what operations are provided; a protocol defines how they are performed. C. A service is used by lower layers, while a protocol belongs to higher layers. D. A protocol defines what operations are performed; a service defines how they are performed.

Question ID :	4410091480341
Option 1 ID :	4410095848452
Option 2 ID :	4410095848450
Option 3 ID :	4410095848453
Option 4 ID :	4410095848451
Status :	Answered
Chosen Option :	D

Q.66	Which statement about left recursion in context-free grammars is accurate?
Ans	A. Left recursion can be direct or indirect and may lead to infinite recursion in top-down parsers. B. Left recursion has no impact on recursive-descent parsing. C. Left recursion occurs when a non-terminal appears at the end of its own production. D. Left recursion is required for building LL(1) parsers without any modification.

Question ID :	4410091433445
Option 1 ID :	4410095662343
Option 2 ID :	4410095662345
Option 3 ID :	4410095662342
Option 4 ID :	4410095662344
Status :	Answered
Chosen Option :	A

Q.67	Consider the following grammar G: $E \rightarrow T E'$ $E' \rightarrow + T E' \epsilon$ $T \rightarrow F T'$ $T' \rightarrow * F T' \epsilon$ $F \rightarrow (E) id$ Which of the following statements about top-down parsing of grammar G is true?
Ans	A. The grammar requires backtracking since FIRST and FOLLOW sets of E' overlap. B. The grammar is left-recursive and hence cannot be used for top-down parsing. C. The grammar is suitable for LL(1) (predictive) parsing and does not require backtracking. D. The grammar is not left-recursive and can be parsed using a predictive (LL(1)) parser.

Question ID :	4410091440499
Option 1 ID :	4410095690673
Option 2 ID :	4410095690671
Option 3 ID :	4410095690674
Option 4 ID :	4410095690672
Status :	Answered
Chosen Option :	B

Q.68	Identify the correct option for project operation in relational algebra: Statement-1: The project operation is a binary operation that returns its argument relation, with certain tuple left out. Statement-2: The result of the PROJECT operation can be visualized as a horizontal partition of the relation into two relations: one has the needed rows (tuples) and contains the result of the operation, and the other contains the discarded rows.
Ans	A. Statement-1 is False and Statement-2 is True B. Statement-1 is False and Statement-2 is False C. Statement-1 is True and Statement-2 is True D. Statement-1 is True and Statement-2 is False

Question ID :	4410091443746
Option 1 ID :	4410095703546
Option 2 ID :	4410095703547
Option 3 ID :	4410095703548
Option 4 ID :	4410095703545
Status :	Answered
Chosen Option :	B

Q.69	Which of the following statements is true regarding the differentiability of a function at a point?
Ans	✖ A. A function may be discontinuous at a point and still be differentiable there.
	✖ B. A function must be differentiable everywhere to be continuous at a point.
	✖ C. A function is differentiable at a point only if its derivative is infinite there.
	✔ D. A function must be continuous at that point to be differentiable there.

Question ID :	4410092319369
Option 1 ID :	4410099121907
Option 2 ID :	4410099121908
Option 3 ID :	4410099121905
Option 4 ID :	4410099121906
Status :	Answered
Chosen Option :	B

Q.70	You are tasked to construct a binary search tree (BST) from a stream of incoming sensor readings, where each reading is processed as it arrives. Midway, the sensor malfunctions and emits a duplicate reading not originally in the stream. To preserve BST properties and ensure efficient future search operations, which strategy should you employ for the duplicate reading?
Ans	✖ A. Replace the existing node with the duplicate value and continue
	✖ B. Allow the duplicate in the right subtree and continue
	✔ C. Ignore the duplicate and continue inserting unique values
	✖ D. Allow the duplicate in the left subtree and continue

Question ID :	4410092215489
Option 1 ID :	4410098718097
Option 2 ID :	4410098718095
Option 3 ID :	4410098718096
Option 4 ID :	4410098718094
Status :	Answered
Chosen Option :	A

Q.71 A 32-bit IEEE 754 single-precision floating-point number is represented as:
0100 0001 0100 1001 0000 0000 0000 0000
What is the decimal value of this floating-point number?

- Ans

✔ A. 12.5625
- ✘ B. 100.5
- ✘ C. 25.125
- ✘ D. 50.25

Question ID :	4410091434964
Option 1 ID :	4410095668393
Option 2 ID :	4410095668396
Option 3 ID :	4410095668394
Option 4 ID :	4410095668395
Status :	Answered
Chosen Option :	A

Q.72 Which scenario is least suitable for sparse matrix representation in computer memory?

- Ans

✔ A. A matrix where most elements are nonzero
- ✘ B. A diagonal matrix
- ✘ C. A large matrix with many zeros
- ✘ D. An adjacency matrix for a large network

Question ID :	4410092215470
Option 1 ID :	4410098718020
Option 2 ID :	4410098718018
Option 3 ID :	4410098718019
Option 4 ID :	4410098718021
Status :	Answered
Chosen Option :	A

Q.73	Which of the following statements are TRUE about server and client side scripting in computer networks? S1: PHP is used for server side scripting S2: HTML is used for database operations S3: CSS is used for server side scripting S4: ASP.NET is used for server side scripting
Ans	A. Only S1 and S3
	B. Only S1, S2 and S4
	C. Only S1 and S4
	D. Only S2 and S3

Question ID :	441009324260
Option 1 ID :	4410091263267
Option 2 ID :	4410091263268
Option 3 ID :	4410091263269
Option 4 ID :	4410091263270
Status :	Answered
Chosen Option :	C

Q.74	Which statement best describes a zero-address instruction in stack-based architectures?
Ans	A. The instruction contains two explicit operand fields.
	B. Operands are stored in accumulator registers.
	C. Operands are implicitly taken from the top of the stack.
	D. Operands are fetched directly from main memory.

Question ID :	4410091385165
Option 1 ID :	4410095471404
Option 2 ID :	4410095471407
Option 3 ID :	4410095471406
Option 4 ID :	4410095471405
Status :	Answered
Chosen Option :	B

Q.75

Given a code snippet in C programming language as follows:

int a = 10;
int *p;
int **w;
p = &a;

which statement correctly assigns the address of 'p' to 'w'?

Ans

✖ A. w = p;

✔ B. w = &p;

✖ C. w = &&a;

✖ D. w = *p;

Question ID :	4410092215464
Option 1 ID :	4410098717994
Option 2 ID :	4410098717996
Option 3 ID :	4410098717995
Option 4 ID :	4410098717997
Status :	Answered
Chosen Option :	B

Q.76

Which of the following correctly describes loopback addressing?

Ans

✔ A. Range from 127.0.0.0 to 127.255.255.255 used for internal host testing.

✖ B. Used to map private IP to public IP.

✖ C. Used for local LAN broadcast.

✖ D. Reserved for router multicast.

Question ID :	4410091441064
Option 1 ID :	4410095692921
Option 2 ID :	4410095692924
Option 3 ID :	4410095692922
Option 4 ID :	4410095692923
Status :	Answered
Chosen Option :	B

Q.77 Which of the following traversals can be used to reconstruct a unique binary tree, if combined with Preorder?

- Ans ☒ A. Inorder
- ☐ B. Preorder alone is enough
- ☐ C. Postorder
- ☐ D. Level Order

Question ID : 441009672448

Option 1 ID : 4410092643896

Option 2 ID : 4410092643897

Option 3 ID : 4410092643894

Option 4 ID : 4410092643895

Status : Answered

Chosen Option : A

Q.78 In a machine instruction, what does the opcode primarily define?

- Ans ☐ A. The size of the instruction in bits.
- ☐ B. The memory address where data is stored.
- ☒ C. The type of operation the processor should execute.
- ☐ D. The number of registers used in execution.

Question ID : 44100927964

Option 1 ID : 441009111402

Option 2 ID : 441009111400

Option 3 ID : 441009111401

Option 4 ID : 441009111403

Status : Answered

Chosen Option : C

Q.79 Why is it considered good practice to close files explicitly even if the programming language runtime may close them at program termination?

- Ans ☐ A. To guarantee file permissions are reset
- ☐ B. To protect the file from accidental deletion
- ☐ C. To ensure the file remains hidden and cannot be reopened by others
- ☒ D. To release resources promptly and avoid resource leaks during execution

Question ID : 4410092215466

Option 1 ID : 4410098718004

Option 2 ID : 4410098718005

Option 3 ID : 4410098718002

Option 4 ID : 4410098718003

Status : Answered

Chosen Option : D

Q.80	Consider the following declaration of array in C language. int arr[5]; Which of the following statements is TRUE about array 'arr'?
Ans	A. The size of array 'arr' can be increased or decreased during run time dynamically B. The 'arr' array can store only integer values C. The 'arr' array can store integers and float values D. The declaration of the array 'arr' is incorrect and will result in an error

Question ID :	441009249806
Option 1 ID :	441009973156
Option 2 ID :	441009973157
Option 3 ID :	441009973158
Option 4 ID :	441009973159
Status :	Answered
Chosen Option :	B

Q.81	What is the output of a JK flip-flop when both inputs J = 1 and K = 1?
Ans	A. Output is set to 0 B. Output remains unchanged C. Output is set to 1 D. Output toggles

Question ID :	441009872029
Option 1 ID :	4410093441290
Option 2 ID :	4410093441292
Option 3 ID :	4410093441291
Option 4 ID :	4410093441293
Status :	Answered
Chosen Option :	C

Q.82	Which of the following options about non-preemptive scheduling is incorrect?
Ans	✖ A. In non-preemptive scheduling, the CPU is relinquished only when a process terminates or initiates an input/output operation.
	✖ B. In non-preemptive scheduling, the response time and waiting time are generally not equal for all processes, and in most cases, waiting time is greater than response time.
	✔ C. Round Robin is classified as a non-preemptive scheduling algorithm.
	✖ D. Non-preemptive scheduling can lead to process starvation.

Question ID :	4410091423907
Option 1 ID :	4410095624437
Option 2 ID :	4410095624439
Option 3 ID :	4410095624436
Option 4 ID :	4410095624438
Status :	Answered
Chosen Option :	C

Q.83	A list of n-1 integers is provided, where each integer is in the range of 1 to n, and there are no duplicates. One integer is missing from the list. What is the time and space complexity if we apply a brute force algorithm to find the missing integer?
Ans	✖ A. $O(n)$ time, $O(n)$ space
	✖ B. $O(n \log n)$ time, $O(1)$ space
	✔ C. $O(n^2)$ time, $O(1)$ space
	✖ D. $O(1)$ time, $O(1)$ space

Question ID :	44100944867
Option 1 ID :	441009178694
Option 2 ID :	441009178695
Option 3 ID :	441009178692
Option 4 ID :	441009178693
Status :	Answered
Chosen Option :	D

Q.84	A logistics company manages a tracking system where each package ID is stored in a chronological list as the packages are processed. An engineer suggests that, to locate a particular package's ID, the system should check each ID sequentially from the start until the target is found or the list ends. Which statement most accurately reflects the main drawback of this approach if the company expects the number of packages to increase dramatically over time?
Ans	A. The memory needed to store package IDs will remain constant even as the list grows. B. Finding a package ID will become faster as the number of packages increases. C. The time to search for any package ID will stay about the same, regardless of list size. D. Search time grows linearly with the number of packages.

Question ID :	4410092215498
Option 1 ID :	4410098718132
Option 2 ID :	4410098718131
Option 3 ID :	4410098718133
Option 4 ID :	4410098718130
Status :	Answered
Chosen Option :	D

Q.85	Which of the following correctly describes an SQL schema?
Ans	A. An SQL schema is a table that stores all user data and constraints. B. An SQL schema is a view that aggregates data from multiple tables. C. An SQL schema is identified by a name, includes an authorization identifier for its owner, and contains descriptors for elements. D. An SQL schema automatically enforces all foreign key constraints across the database.

Question ID :	4410091398549
Option 1 ID :	4410095523939
Option 2 ID :	4410095523941
Option 3 ID :	4410095523940
Option 4 ID :	4410095523942
Status :	Answered
Chosen Option :	B

Q.86	Which of the following best describes the memory hierarchy in a computer system?
Ans	✔ A. Registers → Cache → Main Memory → Secondary Storage
	✘ B. Secondary Storage → Main Memory → Cache → Registers
	✘ C. Cache → Main Memory → Registers → Secondary Storage
	✘ D. Main Memory → Registers → Cache → Secondary Storage

Question ID :	441009752155
Option 1 ID :	4410092962535
Option 2 ID :	4410092962536
Option 3 ID :	4410092962534
Option 4 ID :	4410092962537
Status :	Answered
Chosen Option :	A

Q.87	If a system uses 32-bit virtual addresses and a page size of 4 KB, how many entries are needed in a single-level page table?
Ans	✘ A. 2^{12}
	✘ B. 2^{10}
	✔ C. 2^{20}
	✘ D. 2^{32}

Question ID :	4410091433455
Option 1 ID :	4410095662385
Option 2 ID :	4410095662382
Option 3 ID :	4410095662383
Option 4 ID :	4410095662384
Status :	Answered
Chosen Option :	C

Q.88	In an associative memory system, the key register holds:
Ans	✘ A. The control bits for memory timing.
	✘ B. The binary result of address decoding.
	✘ C. The memory address of the required data.
	✔ D. The tag field used for parallel comparison.

Question ID :	4410091385230
Option 1 ID :	4410095471660
Option 2 ID :	4410095471663
Option 3 ID :	4410095471662
Option 4 ID :	4410095471661
Status :	Answered
Chosen Option :	A

Q.89	Which of the following best describes the relationship between pointers and 1D array declaration in C programming language?
Ans	A. The array name is a pointer variable and can be reassigned to a new address B. The array name and any pointer variable are interchangeable. C. The array name points to the last element of the array. D. The array name points to the first element, but is not a modifiable pointer.

Question ID :	4410092215468
Option 1 ID :	4410098718012
Option 2 ID :	4410098718011
Option 3 ID :	4410098718013
Option 4 ID :	4410098718010
Status :	Answered
Chosen Option :	D

Q.90	Which of the following scenarios best describes a violation of the consistency property?
Ans	A. A transaction completes but leaves the database in a state where total credits ≠ total debits. B. Two transactions read and write the same record simultaneously. C. A transaction partially runs due to a crash. D. Data from a committed transaction is deleted after a restart.

Question ID :	4410091196225
Option 1 ID :	4410094718599
Option 2 ID :	4410094718597
Option 3 ID :	4410094718596
Option 4 ID :	4410094718598
Status :	Answered
Chosen Option :	B

Q.91	A botanist creates a digital representation of a rare plant's evolutionary tree, where each node records a unique genetic mutation. During research, they need to extract the chronological sequence of mutations as they would naturally occur along the main lineage. Which traversal algorithm, when applied to the tree, most accurately reflects the order of these mutations if left sub-branches represent earlier side mutations and right sub-branches represent later side mutations?
Ans	A. A preorder traversal starts with the main mutation, missing proper side branch sequencing.
	B. Applying a postorder traversal lists mutations from leaves to root, not main lineage order.
	C. Performing an inorder traversal yields the desired mutation sequence along the main lineage.
	D. Level order traversal groups mutations by depth, not by evolutionary chronology.

Question ID :	4410092215495
Option 1 ID :	4410098718120
Option 2 ID :	4410098718118
Option 3 ID :	4410098718121
Option 4 ID :	4410098718119
Status :	Answered
Chosen Option :	C

Q.92	What is the worst-case time complexity of a linear search algorithm in an unsorted array of n elements?
Ans	A. $O(1)$
	B. $O(n)$
	C. $O(\log n)$
	D. $O(n \log n)$

Question ID :	441009749075
Option 1 ID :	4410092950127
Option 2 ID :	4410092950126
Option 3 ID :	4410092950124
Option 4 ID :	4410092950125
Status :	Answered
Chosen Option :	D

Q.93	Which operation in Relational Algebra is used to retrieve specific columns from a relation?
Ans	A. Cartesian Product ($\times$)
	B. Projection (π)
	C. Intersection ($\cap$)
	D. Selection (σ)

Question ID :	44100930927
Option 1 ID :	441009123198
Option 2 ID :	441009123197
Option 3 ID :	441009123199
Option 4 ID :	441009123196
Status :	Answered
Chosen Option :	B

Q.94	In the grammar $S \rightarrow aS bS e$, which strings belong to the language?
Ans	A. Any string of a's and b's
	B. string of "ab" or "ba"
	C. Only "ab" and "ba"
	D. Only "a" and "b"

Question ID :	4410091479901
Option 1 ID :	4410095846703
Option 2 ID :	4410095846705
Option 3 ID :	4410095846704
Option 4 ID :	4410095846702
Status :	Answered
Chosen Option :	A

Q.95	What is the division of the main memory in Fixed Partitioning in memory management of operating system?
Ans	A. Destroyed as needed by the processes.
	B. Created as needed by the processes.
	C. Made at boot time and remain unchanged in size and number.
	D. Dynamically resized when a process terminates.

Question ID :	4410091337155
Option 1 ID :	4410095280408
Option 2 ID :	4410095280407
Option 3 ID :	4410095280409
Option 4 ID :	4410095280410
Status :	Answered
Chosen Option :	C

Q.96	Which of the following is true about IEEE standard floating-point formats?
Ans	✔ A. Single-precision uses 32 bits, double-precision uses 64 bits
	✘ B. Both single and double precision use 32 bits
	✘ C. Single-precision uses 64 bits, double-precision uses 32 bits
	✘ D. Single-precision uses 16 bits, double-precision uses 32 bits

Question ID :	4410091431235
Option 1 ID :	4410095653231
Option 2 ID :	4410095653232
Option 3 ID :	4410095653230
Option 4 ID :	4410095653233
Status :	Answered
Chosen Option :	A

Q.97	Which of the following statements correctly describes Isolation and Transaction Isolation Levels in a database system? Statement-1: Ensuring the isolation property is the responsibility of a component of the database system called the concurrency-control system. Statement-2: The isolation levels may be Serializable, Repeatable read, Read committed, Read uncommitted and all the isolation levels additionally disallow dirty writes, that is, they disallow writes to a data item that has already been written by another transaction that has not yet committed or aborted.
Ans	✘ A. Statement-1 is False and Statement-2 is True
	✘ B. Statement-1 is True and Statement-2 is False
	✔ C. Statement-1 is True and Statement-2 is True
	✘ D. Statement-1 is False and Statement-2 is False

Question ID :	4410091357939
Option 1 ID :	4410095363918
Option 2 ID :	4410095363917
Option 3 ID :	4410095363920
Option 4 ID :	4410095363919
Status :	Answered
Chosen Option :	C

Q.98	In a shift-reduce parser, which of the following lists includes all four possible parser actions?
Ans	✖ A. Shift, Move, Accept, Reject
	✖ B. Shift, Jump, Reduce, Halt
	✖ C. Reduce, Copy, Accept, Abort
	✔ D. Shift, Reduce, Accept, Error

Question ID :	4410091398442
Option 1 ID :	4410095523519
Option 2 ID :	4410095523522
Option 3 ID :	4410095523520
Option 4 ID :	4410095523521
Status :	Answered
Chosen Option :	B

Q.99	Which of the following is a valid declaration for a 2D array in C?
Ans	✖ A. int a[][] = {{1,2}, {3,4}};
	✖ B. int a[2,2] = {{1,2}, {3,4}};
	✖ C. array a[2][2] = {{1,2}, {3,4}};
	✔ D. int a[2][2] = {{1,2}, {3,4}};

Question ID :	441009234439
Option 1 ID :	441009916178
Option 2 ID :	441009916179
Option 3 ID :	441009916181
Option 4 ID :	441009916180
Status :	Answered
Chosen Option :	D

Q.100	A team develops a text-mining tool that highlights sequences in security logs where a server's alert code is immediately followed by an IP address in the format 10.0.X.Y (where X and Y are integers). Which regular expression most efficiently identifies these patterns without false positives?
Ans	✖ A. alert\s10\.0\.[0-9]{1,3}\.[A-Z]+
	✖ B. alert\s10\.0\.[0-9]*\.[0-9]*
	✖ C. alert10\.0\.[0-9]+\.[0-9]+
	✔ D. alert\s10\.0\.[0-9]+\.[0-9]+

Question ID :	4410092215509
Option 1 ID :	4410098718176
Option 2 ID :	4410098718175
Option 3 ID :	4410098718174
Option 4 ID :	4410098718177
Status :	Answered
Chosen Option :	A