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Test Time	8:30 AM - 10:30 AM
Subject	Probationary Engineer Computer Science

Section : General Aptitude

Q.1 What is the primary function of the Reserve Bank of India (RBI)?

- Ans 1. Managing foreign relations
 2. Implementing fiscal policy
 3. Regulating stock markets
 4. Conducting monetary policy

Question ID : 630680515484
 Option 1 ID : 6306802014343
 Option 2 ID : 6306802014344
 Option 3 ID : 6306802014342
 Option 4 ID : 6306802014341

Status : Answered

Chosen Option : 2

Q.2 What is the primary goal of sustainable development?

- Ans 1. Immediate improvement of living standards without considering environmental impact
 2. Exploitation of natural resources to meet current needs
 3. Rapid economic growth at any cost
 4. Preservation of natural resources for future generations

Question ID : 630680515485
 Option 1 ID : 6306802014347
 Option 2 ID : 6306802014348
 Option 3 ID : 6306802014345
 Option 4 ID : 6306802014346

Status : Not Answered

Chosen Option : --

Q.3 Which river is known as the "Dakshina Ganga" in India?

- Ans 1. Brahmaputra
 2. Yamuna
 3. Krishna
 4. Godavari

Question ID : 630680515490

Option 1 ID : 6306802014367

Option 2 ID : 6306802014365

Option 3 ID : 6306802014368

Option 4 ID : 6306802014366

Status : Not Answered

Chosen Option : --

Q.4 Which of the following Ruler was responsible for erecting the iron pillar of Delhi?

- Ans 1. Sri Gupta
 2. Chandragupta II
 3. Kumara Gupta
 4. Samudragupta

Question ID : 630680515487

Option 1 ID : 6306802014355

Option 2 ID : 6306802014353

Option 3 ID : 6306802014356

Option 4 ID : 6306802014354

Status : Not Answered

Chosen Option : --

Q.5 Which article of the Indian Constitution deals with Fundamental Duties?

- Ans 1. Article 51A
 2. Article 48A
 3. Article 31B
 4. Article 39C

Question ID : 630680515492

Option 1 ID : 6306802014374

Option 2 ID : 6306802014376

Option 3 ID : 6306802014373

Option 4 ID : 6306802014375

Status : Not Answered

Chosen Option : --

Q.6 Which of the following is a key component of India's infrastructure development?

- Ans 1. Mountaineering facilities
 2. Space exploration
 3. High-speed railways
 4. Deep-sea fishing

Question ID : 630680515491

Option 1 ID : 6306802014372

Option 2 ID : 6306802014369

Option 3 ID : 6306802014370

Option 4 ID : 6306802014371

Status : Answered

Chosen Option : 3

Q.7 Which sports award is considered the highest sporting honour in India?

- Ans 1. Padma Bhushan
 2. Dronacharya Award
 3. Major Dhyan Chand Khel Ratna
 4. Arjuna Award

Question ID : 630680515489

Option 1 ID : 6306802014364

Option 2 ID : 6306802014362

Option 3 ID : 6306802014363

Option 4 ID : 6306802014361

Status : Answered

Chosen Option : 3

Q.8 What is the purpose of pasteurization in food processing?

- Ans 1. To add flavour to the food.
 2. To increase the nutritional content of food.
 3. To destroy pathogenic microorganisms present in the food
 4. To enhance the colour of the food.

Question ID : 630680515495

Option 1 ID : 6306802014385

Option 2 ID : 6306802014387

Option 3 ID : 6306802014386

Option 4 ID : 6306802014388

Status : Not Answered

Chosen Option : --

Q.9 Which language is recognized as a Classical Language by the Government of India?

- Ans 1. Sanskrit
 2. Bengali
 3. English
 4. Hindi

Question ID : 630680515488

Option 1 ID : 6306802014359

Option 2 ID : 6306802014360

Option 3 ID : 6306802014358

Option 4 ID : 6306802014357

Status : Not Answered

Chosen Option : --

Q.10 Which of the following is a characteristic feature of the Animal Kingdom?

- Ans 1. Cell walls made of cellulose
 2. Presence of chloroplasts
 3. Heterotrophic mode of nutrition
 4. Autotrophic nutrition

Question ID : 630680515494

Option 1 ID : 6306802014381

Option 2 ID : 6306802014383

Option 3 ID : 6306802014384

Option 4 ID : 6306802014382

Status : Not Answered

Chosen Option : --

Q.11 Which socio-religious reform movement in modern history aimed at eradicating social evils such as untouchability, caste discrimination, and promoting education and women's rights?

- Ans 1. The Arya Samaj
 2. The Brahmo Samaj
 3. The Aligarh Movement
 4. The Deoband Movement

Question ID : 630680515486

Option 1 ID : 6306802014351

Option 2 ID : 6306802014349

Option 3 ID : 6306802014352

Option 4 ID : 6306802014350

Status : Not Answered

Chosen Option : --

Q.12 Which of the following is a Constitutional Body in India?

- Ans 1. Planning Commission
 2. Election Commission of India (ECI)
 3. Reserve Bank of India (RBI)
 4. National Investigation Agency (NIA)

Question ID : 630680515493

Option 1 ID : 6306802014379

Option 2 ID : 6306802014378

Option 3 ID : 6306802014377

Option 4 ID : 6306802014380

Status : Answered

Chosen Option : 2

Section : Reasoning

Q.1 In a certain code language, if RESCUE is coded as 'EUCRES' and HANDLE is coded as 'ELDHAN', then what will DANGER be coded as?

- Ans 1. REGDAN
 2. RGEDAN
 3. REGADN
 4. REGDND

Question ID : 630680515500

Option 1 ID : 6306802014408

Option 2 ID : 6306802014407

Option 3 ID : 6306802014405

Option 4 ID : 6306802014406

Status : Answered

Chosen Option : 3

Q.2 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- Ans 1. FGI
 2. JKM
 3. RSU
 4. VWX

Question ID : 630680515503

Option 1 ID : 6306802014420

Option 2 ID : 6306802014418

Option 3 ID : 6306802014417

Option 4 ID : 6306802014419

Status : Answered

Chosen Option : 3

Q.3 Which of the following numbers will replace the question mark (?) in the given series?

14, 13, 15, 12, 16, 11, ?

- Ans 1. 18
 2. 15
 3. 16
 4. 17

Question ID : 630680515505

Option 1 ID : 6306802014428

Option 2 ID : 6306802014427

Option 3 ID : 6306802014426

Option 4 ID : 6306802014425

Status : Answered

Chosen Option : 4

Q.4 Select the option that is related to the fifth word in the same way as the fourth word is related to the third word, and the second word is related to the first word.

KANGAROO : JOEY :: BEAR : ?

- Ans 1. Calf
 2. Chick
 3. Cub
 4. Puppy

Question ID : 630680515502

Option 1 ID : 6306802014413

Option 2 ID : 6306802014415

Option 3 ID : 6306802014414

Option 4 ID : 6306802014416

Status : Not Answered

Chosen Option : --

Q.5 Three Statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statement I: All fruits are vegetables.
Statement II: Some vegetables are green.
Statement III: Some green things are ugly.

Conclusion I: Some vegetables are fruits.
Conclusion II: Some green things are not ugly.

- Ans 1. Only conclusion II follows
 2. Only conclusion I follows
 3. Neither conclusion I nor II follows
 4. Both conclusions I and II follow

Question ID : 630680515498
Option 1 ID : 6306802014398
Option 2 ID : 6306802014397
Option 3 ID : 6306802014400
Option 4 ID : 6306802014399
Status : Answered
Chosen Option : 2

Q.6 If, B denotes ‘addition’, C denotes ‘division’, and D denotes ‘subtraction’, then what will be the value of the following equation?

$$12 \text{ D } 4 \text{ C } 2 \text{ B } 3 = ?$$

- Ans 1. 13
 2. 15
 3. 14
 4. 12

Question ID : 630680515506
Option 1 ID : 6306802014430
Option 2 ID : 6306802014429
Option 3 ID : 6306802014431
Option 4 ID : 6306802014432
Status : Answered
Chosen Option : 1

Q.7 Select the option that is related to the third number in the same way as the second number is related to the first number.

$$57 : 228 :: 79 : ?$$

- Ans 1. 333
 2. 316
 3. 329
 4. 341

Question ID : 630680515508
Option 1 ID : 6306802014438
Option 2 ID : 6306802014437
Option 3 ID : 6306802014439
Option 4 ID : 6306802014440
Status : Answered
Chosen Option : 2

Q.8 Rohan says, "Ajay's wife is the sister of my father's only son." How is Ajay related to Rohan?

- Ans 1. Mother's father
 2. Husband
 3. Brother
 4. Sister's husband

Question ID : 630680515501

Option 1 ID : 6306802014411

Option 2 ID : 6306802014412

Option 3 ID : 6306802014409

Option 4 ID : 6306802014410

Status : Answered

Chosen Option : 4

Q.9 Which of the following numbers will replace the question mark (?) in the given series?

1076, ?, 688, 494, 300, 106

- Ans 1. 831
 2. 858
 3. 872
 4. 882

Question ID : 630680515504

Option 1 ID : 6306802014421

Option 2 ID : 6306802014422

Option 3 ID : 6306802014424

Option 4 ID : 6306802014423

Status : Answered

Chosen Option : 4

Q.10 Seven friends Alice, Bob, Carol, David, Eve, Frank, and Grace are sitting around a circular table facing the centre. Alice is sitting to the immediate right of Bob. Bob and Carol are neighbours. Frank is sitting exactly between David and Eve. Grace is not sitting next to Carol or Eve. Who is sitting between Alice and David?

- Ans 1. Frank
 2. Eve
 3. Grace
 4. Bob

Question ID : 630680515496

Option 1 ID : 6306802014391

Option 2 ID : 6306802014392

Option 3 ID : 6306802014389

Option 4 ID : 6306802014390

Status : Answered

Chosen Option : 3

Q.11 Which two signs should be interchanged to make the given equation correct?

$$16 = 4 \times 5 \div 2 - 8 + 18$$

- Ans 1. + and -
 2. + and \times
 3. = and +
 4. - and =

Question ID : 630680515507

Option 1 ID : 6306802014434

Option 2 ID : 6306802014433

Option 3 ID : 6306802014436

Option 4 ID : 6306802014435

Status : Answered

Chosen Option : 3

Q.12 Which of the following letter will replace the question mark (?) in the given series?

R, U, X, A, D, ?

- Ans 1. G
 2. H
 3. I
 4. F

Question ID : 630680515499

Option 1 ID : 6306802014401

Option 2 ID : 6306802014403

Option 3 ID : 6306802014404

Option 4 ID : 6306802014402

Status : Answered

Chosen Option : 1

Q.13 There are 133 boxes kept one above the other. What will be the position of the box from the bottom whose position from the top is 27th?

- Ans 1. 107
 2. 123
 3. 139
 4. 142

Question ID : 630680515497

Option 1 ID : 6306802014394

Option 2 ID : 6306802014396

Option 3 ID : 6306802014393

Option 4 ID : 6306802014395

Status : Answered

Chosen Option : 1

Q.1 Which of the following array representation is CORRECT for the max heap of the following data elements?

20, 30, 70, 10, 5, 50, 80

- Ans 1. 5, 10, 20, 30, 50, 70, 80
 2. 80, 70, 50, 30, 20, 10, 5
 3. 80, 20, 70, 10, 5, 30, 50
 4. 70, 20, 80, 10, 5, 30, 50

Question ID : 630680515533

Option 1 ID : 6306802014537

Option 2 ID : 6306802014538

Option 3 ID : 6306802014540

Option 4 ID : 6306802014539

Status : Answered

Chosen Option : 2

Q.2 According to memory hierarchy as one goes down the hierarchy what will NOT occur?

- Ans 1. Increasing frequency of access of the memory by the processor
 2. Decreasing cost per bit
 3. Increasing capacity
 4. Increasing access time

Question ID : 630680515524

Option 1 ID : 6306802014504

Option 2 ID : 6306802014501

Option 3 ID : 6306802014502

Option 4 ID : 6306802014503

Status : Answered

Chosen Option : 1

Q.3 In context of OSI model of computer networks _____ layer provides services that directly support end users of networks and is a collection of miscellaneous protocols for various commonly used applications such as electronic mail, file transfer etc.

- Ans 1. Session
 2. Presentation
 3. Transport
 4. Application

Question ID : 630680515580

Option 1 ID : 6306802014727

Option 2 ID : 6306802014725

Option 3 ID : 6306802014728

Option 4 ID : 6306802014726

Status : Answered

Chosen Option : 4

Q.4 Which of the following is the single path shortest path algorithm?

- Ans 1. Topological sort
 2. Tree search
 3. Binary search
 4. Dijkstra's algorithm

Question ID : 630680515541

Option 1 ID : 6306802014569

Option 2 ID : 6306802014572

Option 3 ID : 6306802014570

Option 4 ID : 6306802014571

Status : Answered

Chosen Option : 4

Q.5 Which of the following is NOT the problems of synchronization?

- Ans 1. The Dining-Philosophers problem
 2. The Bounded-Buffer problem
 3. The Knapsack problem
 4. The Readers-Writer problem

Question ID : 630680515564

Option 1 ID : 6306802014664

Option 2 ID : 6306802014661

Option 3 ID : 6306802014662

Option 4 ID : 6306802014663

Status : Answered

Chosen Option : 3

Q.6 Which of the following is the external sorting?

- Ans 1. Merge sort
 2. Insertion sort
 3. Selection sort
 4. Quick sort

Question ID : 630680515539

Option 1 ID : 6306802014564

Option 2 ID : 6306802014561

Option 3 ID : 6306802014563

Option 4 ID : 6306802014562

Status : Answered

Chosen Option : 1

Q.7 _____ acts as a high-speed buffer between CPU and main memory and computer systems use it to store temporarily very active data and instructions during processing.

- Ans 1. Cache memory
 2. PROM
 3. EPROM
 4. Flash memory

Question ID : 630680515519

Option 1 ID : 6306802014481

Option 2 ID : 6306802014483

Option 3 ID : 6306802014482

Option 4 ID : 6306802014484

Status : Answered

Chosen Option : 1

Q.8 _____ begins at the vortex of the spiral and concentrate on each component of the software as implemented in source code.

- Ans 1. Validation testing
 2. System testing
 3. Integration testing
 4. Unit testing

Question ID : 630680515588

Option 1 ID : 6306802014759

Option 2 ID : 6306802014760

Option 3 ID : 6306802014758

Option 4 ID : 6306802014757

Status : Answered

Chosen Option : 3

Q.9 $10 + (1010)^*$ [$\wedge + (1010)^*$] is equivalent to _____, where \wedge represent null.

- Ans 1. $(1100)^*$
 2. $10 + (1010)^*$
 3. $(1010)^*$
 4. $(1010)^* + 10$

Question ID : 630680515543

Option 1 ID : 6306802014580

Option 2 ID : 6306802014578

Option 3 ID : 6306802014577

Option 4 ID : 6306802014579

Status : Answered

Chosen Option : 2

Q.10 Which of the following is part of the hierarchical storage system?

- I. Cache memory
II. Near-line mass storage devices

- Ans 1. Neither I nor II
 2. Only I
 3. Only II
 4. Both I and II

Question ID : 630680515523

Option 1 ID : 6306802014500

Option 2 ID : 6306802014497

Option 3 ID : 6306802014498

Option 4 ID : 6306802014499

Status : Answered

Chosen Option : 4

Q.11 Which of the following change brought about by the iterative waterfall model to the classical waterfall model?

- Ans 1. Easy to accommodate change request
 2. Efficient error correction
 3. Addition of feedback paths
 4. Overlapping of phases

Question ID : 630680515585

Option 1 ID : 6306802014746

Option 2 ID : 6306802014747

Option 3 ID : 6306802014745

Option 4 ID : 6306802014748

Status : Answered

Chosen Option : 3

Q.12 A merchant allows a discount of 10 percent on marked price. If he wants to earn a profit of 10 percent, then marked price will be how much percentage more than the cost price?

- Ans 1. 30 percent
 2. 22.22 percent
 3. 50.66 percent
 4. 33.33 percent

Question ID : 630680515601

Option 1 ID : 6306802014811

Option 2 ID : 6306802014809

Option 3 ID : 6306802014812

Option 4 ID : 6306802014810

Status : Answered

Chosen Option : 3

Q.13 In context to Database management system which of the following is CORRECT regarding query by example?

- I. A Query by example form collects all information from a user for composing query language statements for search criterion.
II. Query by example relieves users from remembering query language keywords and using them with correct syntax to form queries.

- Ans 1. Neither I nor II
 2. Both I and II
 3. Only II
 4. Only I

Question ID : 630680515571

Option 1 ID : 6306802014692

Option 2 ID : 6306802014691

Option 3 ID : 6306802014690

Option 4 ID : 6306802014689

Status : Answered

Chosen Option : 3

Q.14 Consider the following confusion matrix.

	Positive (Predicted)	Negative (Predicted)
Positive (Actual)	100	50
Negative (Actual)	150	9700

What is the value of False Negative in this confusion matrix?

- Ans 1. 100
 2. 50
 3. 9700
 4. 150

Question ID : 630680515598
Option 1 ID : 6306802014797
Option 2 ID : 6306802014798
Option 3 ID : 6306802014800
Option 4 ID : 6306802014799
Status : Answered
Chosen Option : 3

Q.15 Which of the following is NOT the necessary condition for the deadlock?

- Ans 1. Preemption
 2. Circular wait
 3. Hold and wait
 4. Mutual exclusion

Question ID : 630680515565
Option 1 ID : 6306802014667
Option 2 ID : 6306802014668
Option 3 ID : 6306802014666
Option 4 ID : 6306802014665
Status : Answered
Chosen Option : 3

Q.16 In any computer network, a communication protocol normally perform, which of the following functions for efficient and error free transmission of data?

- I. Data Routing
- II. Procedure and order of Transmission
- III. Data security
- IV. Data formatting

- Ans 1. Only I, III, IV
 2. Only I, II and III
 3. Only II, III and IV
 4. I, II, III and IV

Question ID : 630680515581
Option 1 ID : 6306802014731
Option 2 ID : 6306802014729
Option 3 ID : 6306802014730
Option 4 ID : 6306802014732
Status : Answered
Chosen Option : 4

Q.17 Match of the language with its machine format.

	Language		Machine
I	Unrestricted language	1	Finite automata
II	Context sensitive language	2	Push down automata
III	Context free language	3	Linear bounded automata
IV	Regular expression	4	Turing machine

- Ans 1. I – 2; II – 3; III – 4; IV – 1
 2. I – 4; II – 2; III – 1; IV – 3
 3. I – 4; II – 3; III – 2; IV – 1
 4. I – 3; II – 4; III – 1; IV – 2

Question ID : 630680515547
Option 1 ID : 6306802014593
Option 2 ID : 6306802014595
Option 3 ID : 6306802014596
Option 4 ID : 6306802014594
Status : Answered
Chosen Option : 3

Q.18 K-Nearest Neighbours algorithm is a _____ classification algorithm that classifies new data point based on the nearest data point.

- Ans 1. Reinforcement
 2. Unsupervised
 3. Deep learning
 4. Supervised

Question ID : 630680515596
Option 1 ID : 6306802014791
Option 2 ID : 6306802014790
Option 3 ID : 6306802014792
Option 4 ID : 6306802014789
Status : Answered
Chosen Option : 4

Q.19 Match the following algorithm with its average complexity.

	Algorithm		Average Complexity
I	Binary search	1	$O(n^2)$
II	Quick sort	2	$O(\log n)$
III	Linear search	3	$O(n \log n)$
IV	Selection sort	4	$O(n)$

- Ans 1. I – 4; II – 3; III – 2; IV – 1
 2. I – 2; II – 3; III – 4; IV – 1
 3. I – 1; II – 4; III – 2; IV – 3
 4. I – 3; II – 1; III – 2; IV – 4

Question ID : 630680515542
Option 1 ID : 6306802014576
Option 2 ID : 6306802014575
Option 3 ID : 6306802014573
Option 4 ID : 6306802014574
Status : Answered
Chosen Option : 2

Q.20 In context of computer networks, based on data transmission speed which of the following are the bases categories of communication channels (paths)?

- I. Narrow band
- II. Voice band
- III. Broad band

Ans 1. Only II and III
 2. Only I and II
 3. Only I and III
 4. I, II and III

Question ID : 630680515577
Option 1 ID : 6306802014714

Option 2 ID : 6306802014713

Option 3 ID : 6306802014715

Option 4 ID : 6306802014716

Status : Answered

Chosen Option : 3

Q.21 Which of the following is the CORRECT sequence of the phases of a compiler?

Ans 1. Lexical analysis, syntax analysis, intermediate code generation, code optimization, code generation
 2. Lexical analysis, intermediate code generation, syntax analysis, code generation, code optimization
 3. Lexical analysis, intermediate code generation, syntax analysis, code optimization, code generation
 4. Lexical analysis, syntax analysis, intermediate code generation, code generation, code optimization

Question ID : 630680515558

Option 1 ID : 6306802014640

Option 2 ID : 6306802014638

Option 3 ID : 6306802014637

Option 4 ID : 6306802014639

Status : Answered

Chosen Option : 1

Q.22 In context of computer networks which of the following is a data transmission mode?

- I. Simplex
- II. Half Simplex
- III. Full Duplex

Ans 1. Only I and III
 2. Only I and II
 3. Only II and III
 4. I, II and III

Question ID : 630680515576

Option 1 ID : 6306802014711

Option 2 ID : 6306802014709

Option 3 ID : 6306802014710

Option 4 ID : 6306802014712

Status : Answered

Chosen Option : 4

Q.23 Match the following type of software maintenance to the situation where it carried out.

	Maintenance		Situation
I	Corrective	1	Carried out to improve the performance of the system or to enhance the functionalities of the system
II	Perfective	2	Usually required for porting the software to work in new environment
III	Adaptive	3	Carried out to correct errors that were not discovered during the product development phase

Ans 1. I – 1; II – 2; III – 3

2. I – 3; II – 2; III – 1

3. I – 1; II – 3; III – 2

4. I – 3; II – 1; III – 2

Question ID : 630680515584

Option 1 ID : 6306802014742

Option 2 ID : 6306802014741

Option 3 ID : 6306802014744

Option 4 ID : 6306802014743

Status : Answered

Chosen Option : 4

Q.24 Which of the following is NOT the action performed by a shift – reduce parser?

Ans 1. Error

2. Accept

3. Shift

4. Debase

Question ID : 630680515555

Option 1 ID : 6306802014628

Option 2 ID : 6306802014627

Option 3 ID : 6306802014625

Option 4 ID : 6306802014626

Status : Answered

Chosen Option : 3

Q.25 In context of Relational Algebra of Database Management System, SELECT operation is used to select a subset of the tuples from a relation that satisfy a _____.

Ans 1. Attribute Criteria

2. Block Criteria

3. Selection Criteria

4. Relation Criteria

Question ID : 630680515572

Option 1 ID : 6306802014696

Option 2 ID : 6306802014694

Option 3 ID : 6306802014693

Option 4 ID : 6306802014695

Status : Answered

Chosen Option : 3

Q.26 What is the total number of swaps performed to sort the following list of elements 18, 32, 17, 19, 41, 15, 23 in an ascending order, using bubble sort?

Ans 1. 11

2. 13

3. 12

4. 10

Question ID : 630680515536

Option 1 ID : 6306802014551

Option 2 ID : 6306802014549

Option 3 ID : 6306802014550

Option 4 ID : 6306802014552

Status : Answered

Chosen Option : 4

Q.27 Consider the following queue of character, implemented using array of 7 memory,

Front = 3 Rear = 4 Queue: —, —, A, B, —, —, —, where ‘—’ denote empty memory cell.

What is the value of front and rear after the following operation?

Enqueue C, D

Dequeue

Enqueue E, F

Dequeue

Ans 1. Front = 5 Rear = 1

2. Front = 4 Rear = 7

3. Front = 3 Rear = 6

4. Front = 1 Rear = 4

Question ID : 630680515529

Option 1 ID : 6306802014522

Option 2 ID : 6306802014523

Option 3 ID : 6306802014524

Option 4 ID : 6306802014521

Status : Answered

Chosen Option : 3

Q.28 Which of the following algorithms is an example of the divide and conquer approach?

Ans 1. Quick sort

2. Prim's algorithm

3. Longest common subsequence

4. Matrix-chain multiplication

Question ID : 630680515534

Option 1 ID : 6306802014541

Option 2 ID : 6306802014542

Option 3 ID : 6306802014544

Option 4 ID : 6306802014543

Status : Answered

Chosen Option : 4

Q.29 Which of the following is the type of parallel processor system as per Flynn's taxonomy?

- I. Single instruction, single data (SISD) stream
- II. Single instruction, multiple data (SIMD) stream

Ans 1. Both I and II

2. Only I

3. Neither I nor II

4. Only II

Question ID : 630680515518

Option 1 ID : 6306802014479

Option 2 ID : 6306802014477

Option 3 ID : 6306802014480

Option 4 ID : 6306802014478

Status : Answered

Chosen Option : 4

Q.30 Which of the following is NOT an input device?

Ans 1. Point and draw devices

2. Speech recognition devices

3. Voice response system

4. Keyboard

Question ID : 630680515521

Option 1 ID : 6306802014490

Option 2 ID : 6306802014491

Option 3 ID : 6306802014492

Option 4 ID : 6306802014489

Status : Answered

Chosen Option : 1

Q.31 In context of OSI model of computer networks, which of the following is a Transport Layer Protocol?

- I. Transport Control Protocol
- II. User Datagram Protocol

Ans 1. Both I and II

2. Only I

3. Only II

4. Neither I nor II

Question ID : 630680515579

Option 1 ID : 6306802014723

Option 2 ID : 6306802014721

Option 3 ID : 6306802014722

Option 4 ID : 6306802014724

Status : Answered

Chosen Option : 1

Q.32 Which of the following machine learning algorithm does NOT use clustering?

Ans 1. Linear Discriminant Analysis

2. Expectation Maximization

3. K-Medians

4. K-means

Question ID : 630680515595

Option 1 ID : 6306802014788

Option 2 ID : 6306802014787

Option 3 ID : 6306802014786

Option 4 ID : 6306802014785

Status : Answered

Chosen Option : 2

Q.33 In context of OSI model of computer networks _____ layer provides means of establishing, maintaining and transmitting a dialogue between two end users.

Ans 1. Presentation

2. Session

3. Application

4. Transport

Question ID : 630680515583

Option 1 ID : 6306802014739

Option 2 ID : 6306802014738

Option 3 ID : 6306802014740

Option 4 ID : 6306802014737

Status : Answered

Chosen Option : 4

Q.34 Parser is categorized into which type of context-free grammar?

Ans 1. Four

2. Three

3. Two

4. One

Question ID : 630680515553

Option 1 ID : 6306802014620

Option 2 ID : 6306802014619

Option 3 ID : 6306802014618

Option 4 ID : 6306802014617

Status : Answered

Chosen Option : 3

Q.35 Which of the following is NOT the part of the organization of C programming language Activation Record?

Ans 1. Local data

2. Formal parameters

3. Return address

4. Argument count

Question ID : 630680515557

Option 1 ID : 6306802014634

Option 2 ID : 6306802014633

Option 3 ID : 6306802014636

Option 4 ID : 6306802014635

Status : Answered

Chosen Option : 3

Q.36 Which of the following is the CORRECT for O- notation?

Ans  1.

$O(g(n)) = \{f(n) : \text{there exist positive constant } C \text{ and } n_0 \text{ such that } O \leq f(n) \leq cg(n) \text{ for all } n \geq n_0\}$

 2.

$O(g(n)) = \{f(n) : \text{there exist positive constant } C \text{ and } n_0 \text{ such that } O \geq f(n) \geq cg(n) \text{ for all } n \geq n_0\}$

 3.

$O(g(n)) = \{f(n) : \text{there exist positive constant } C_1, C_2 \text{ and } n_0 \text{ such that } O \leq C_1 g(n) \leq f(n) \leq C_2 g(n) \text{ for all } n \geq n_0\}$

 4.

$O(g(n)) = \{f(n) : \text{there exist positive constant } C \text{ and } n_0 \text{ such that } O \leq C g(n) \leq f(n) \text{ for all } n \geq n_0\}$

Question ID : 630680515540

Option 1 ID : 6306802014565

Option 2 ID : 6306802014566

Option 3 ID : 6306802014568

Option 4 ID : 6306802014567

Status : Answered

Chosen Option : 2

Q.37 Which of the following statement is CORRECT with reference to syntax-directed Translation Schemes?

I. Synthesized translation defines the value of the translation of the nonterminal on the left side of the production as a function of the translations of the nonterminal on the right side.

II. Translation of a non-terminal on the right side of the production is defined in terms of a translation of the non-terminal on left. Such translation is called inherited translation.

Ans  1. Neither I nor II

 2. Both I and II

 3. Only I

 4. Only II

Question ID : 630680515556

Option 1 ID : 6306802014632

Option 2 ID : 6306802014631

Option 3 ID : 6306802014629

Option 4 ID : 6306802014630

Status : Answered

Chosen Option : 3

Q.38 Which of the following is NOT part of the mechanical diagram of the Turing machine?

Ans  1. Read-write head

 2. Input tape

 3. Finite control

 4. Queue

Question ID : 630680515550

Option 1 ID : 6306802014606

Option 2 ID : 6306802014605

Option 3 ID : 6306802014607

Option 4 ID : 6306802014608

Status : Answered

Chosen Option : 3

Q.39 In context of Database, which of the following is the CORRECT order for creating a database?

- A → Defining its structure (scheme)
- B → Entering data into the database
- C → Designing forms (custom screens) for displaying and entering data

Ans ✓ 1. A → C → B

✗ 2. C → A → B

✗ 3. B → A → C

✗ 4. A → B → C

Question ID : 630680515567

Option 1 ID : 6306802014675

Option 2 ID : 6306802014676

Option 3 ID : 6306802014674

Option 4 ID : 6306802014673

Status : Answered

Chosen Option : 2

Q.40 If $w : x : y = 3 : 5 : 2$ and $y : z = 2 : 5$, then what is the value of $w : x : y : z$?

Ans ✗ 1. 4 : 5 : 3 : 5

✗ 2. 3 : 5 : 2 : 4

✗ 3. 2 : 5 : 2 : 5

✓ 4. 3 : 5 : 2 : 5

Question ID : 630680515602

Option 1 ID : 6306802014816

Option 2 ID : 6306802014813

Option 3 ID : 6306802014815

Option 4 ID : 6306802014814

Status : Answered

Chosen Option : 4

Q.41 A _____ is a combinational circuit that selects binary information from one of many input lines and directs it to a single output line.

Ans ✓ 1. digital multiplexer

✗ 2. half subtractor

✗ 3. half adder

✗ 4. full adder

Question ID : 630680515516

Option 1 ID : 6306802014470

Option 2 ID : 6306802014471

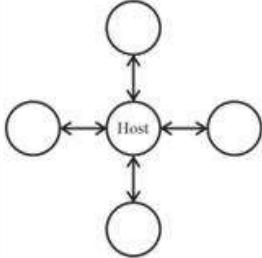
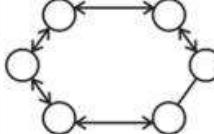
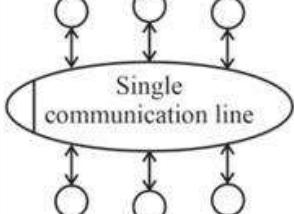
Option 3 ID : 6306802014469

Option 4 ID : 6306802014472

Status : Answered

Chosen Option : 1

Q.42 Match the following network diagram with the correct topology.

	Network diagram		Topology
I		1	Ring network
II		2	Bus network
III		3	Star network

Ans 1. I – 1; II – 3; III – 2

2. I – 3; II – 1; III – 2

3. I – 3; II – 2; III – 1

4. I – 1; II – 2; III – 3

Question ID : 630680515578

Option 1 ID : 6306802014719

Option 2 ID : 6306802014718

Option 3 ID : 6306802014720

Option 4 ID : 6306802014717

Status : Answered

Chosen Option : 2

Q.43 Which derivation is also known as canonical derivations?

Ans 1. Left most derivation

2. Left most derivation in reverse

3. Right most derivation

4. Right most derivations in reverse

Question ID : 630680515554

Option 1 ID : 6306802014623

Option 2 ID : 6306802014622

Option 3 ID : 6306802014624

Option 4 ID : 6306802014621

Status : Answered

Chosen Option : 3

Q.44 Context free grammar is _____ grammar according to the Chomsky hierarchy.

- Ans 1. Type 3
 2. Type 1
 3. Type 2
 4. Type 0

Question ID : 630680515546

Option 1 ID : 6306802014589

Option 2 ID : 6306802014591

Option 3 ID : 6306802014590

Option 4 ID : 6306802014592

Status : Answered

Chosen Option : 3

Q.45 Any address generated by the CPU is commonly referred to as a _____ where an address seen by the memory unit i.e. the one loaded into the memory address register is known as _____.

- Ans 1. logical address; physical address
 2. logical address; absolute address
 3. physical address; relocatable address
 4. absolute address; physical address

Question ID : 630680515566

Option 1 ID : 6306802014670

Option 2 ID : 6306802014669

Option 3 ID : 6306802014671

Option 4 ID : 6306802014672

Status : Answered

Chosen Option : 1

Q.46 Which of the following statement is CORRECT regarding Entropy of which is a measurement the uncertainty in data?

- I. Low entropy indicates that the data labels are quite uniform.
II. High entropy means the labels are in chaos.

- Ans 1. Neither I nor II
 2. Only II
 3. Both I and II
 4. Only I

Question ID : 630680515597

Option 1 ID : 6306802014796

Option 2 ID : 6306802014794

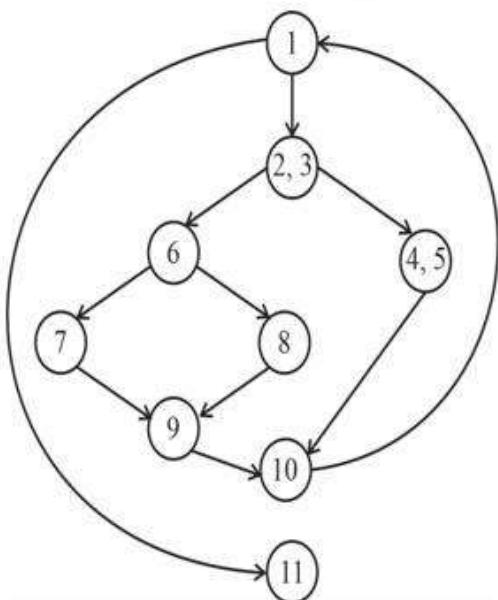
Option 3 ID : 6306802014795

Option 4 ID : 6306802014793

Status : Answered

Chosen Option : 3

Q.47 What is the cyclomatic complexity of the given flow graph?



Ans 1. 3
 2. 4
 3. 5
 4. 6

Question ID : 630680515589
Option 1 ID : 6306802014761
Option 2 ID : 6306802014762
Option 3 ID : 6306802014763
Option 4 ID : 6306802014764
Status : Answered
Chosen Option : 3

Q.48 Which of the following statement is CORRECT regarding FLIP-FLOPS?

- I. A FLIP-FLOP circuit can maintain a binary state indefinitely (as long as power is applied) until directed by an input signal to switch states.
- II. The major differences among various types of FLIP-FLOPS are in the number of inputs they possess and in the manner in which the inputs affect the binary state.

Ans 1. Only II
 2. Only I
 3. Both I and II
 4. Neither I nor II

Question ID : 630680515517
Option 1 ID : 6306802014474
Option 2 ID : 6306802014473
Option 3 ID : 6306802014475
Option 4 ID : 6306802014476
Status : Answered
Chosen Option : 3

Q.49 Mixture of milk and water in three bottles of equal capacity is in the ratio 3 : 4, 1 : 2 and 9 : 5 respectively. These three bottles are emptied into a large bottle. What will be the ratio of milk and water respectively in the large bottle?

- Ans 1. 69 : 57
 2. 49 : 37
 3. 59 : 67
 4. 59 : 57

Question ID : 630680515604
Option 1 ID : 6306802014823
Option 2 ID : 6306802014822
Option 3 ID : 6306802014821
Option 4 ID : 6306802014824
Status : Answered
Chosen Option : 3

Q.50 How many distinct binary trees are constructed using 5 nodes?

- Ans 1. 30
 2. 5
 3. 16
 4. 42

Question ID : 630680515532
Option 1 ID : 6306802014536
Option 2 ID : 6306802014533
Option 3 ID : 6306802014535
Option 4 ID : 6306802014534
Status : Answered
Chosen Option : 3

Q.51 In First-Come-First-Served CPU scheduling algorithm when all the other processes wait for one big process to get off the CPU is known as _____.

- Ans 1. Starvation
 2. Aging
 3. Convoy effect
 4. Belady's Anomaly

Question ID : 630680515563
Option 1 ID : 6306802014658
Option 2 ID : 6306802014659
Option 3 ID : 6306802014657
Option 4 ID : 6306802014660
Status : Answered
Chosen Option : 3

Q.52 Consider a hash table with 10 slots. What is the sequence of the following elements in a hash table if hash function is k mode 10 and the collision is resolved using liner probing?

44, 26, 12, 93, 80, 57, 56, 23, 46, 36

- Ans 1. 12, 23, 26, 36, 44, 46, 56, 57, 80, 93
 2. 80, 46, 12, 93, 44, 23, 26, 57, 56, 36
 3. 80, 36, 12, 93, 44, 23, 26, 56, 46, 57
 4. 80, 36, 12, 93, 44, 23, 26, 57, 56, 46

Question ID : 630680515538

Option 1 ID : 6306802014557

Option 2 ID : 6306802014559

Option 3 ID : 6306802014560

Option 4 ID : 6306802014558

Status : Answered

Chosen Option : 1

Q.53 A _____ defines an action the database should take when same database-related event occurs that causes a change in the content of a table in a database.

- Ans 1. Trigger
 2. Field
 3. Relation
 4. Hit

Question ID : 630680515574

Option 1 ID : 6306802014701

Option 2 ID : 6306802014703

Option 3 ID : 6306802014702

Option 4 ID : 6306802014704

Status : Answered

Chosen Option : 3

Q.54 A process is _____, if it cannot affect or be affected by the other processes executing in the system.

- Ans 1. independent
 2. co-operating
 3. dependent
 4. self-supporting

Question ID : 630680515560

Option 1 ID : 6306802014647

Option 2 ID : 6306802014645

Option 3 ID : 6306802014646

Option 4 ID : 6306802014648

Status : Answered

Chosen Option : 2

Q.55 What is the decimal conversion of $(1010.011)_2$?

Ans 1. 10.375

- 2. 14
- 3. 12
- 4. 11.375

Question ID : 630680515509

Option 1 ID : 6306802014441

Option 2 ID : 6306802014444

Option 3 ID : 6306802014443

Option 4 ID : 6306802014442

Status : Answered

Chosen Option : 1

Q.56 Full-Subtractor has _____ inputs and _____ outputs.

Ans 1. 3; 3

- 2. 3; 2
- 3. 2; 2
- 4. 2; 3

Question ID : 630680515515

Option 1 ID : 6306802014467

Option 2 ID : 6306802014465

Option 3 ID : 6306802014468

Option 4 ID : 6306802014466

Status : Answered

Chosen Option : 2

Q.57 Identify the category of the multithreading which allow a program to continue running even if part of it is blocked or is performing a lengthy operation.

Ans 1. Responsiveness

- 2. Economy
- 3. Resource sharing
- 4. Scalability

Question ID : 630680515561

Option 1 ID : 6306802014650

Option 2 ID : 6306802014651

Option 3 ID : 6306802014649

Option 4 ID : 6306802014652

Status : Answered

Chosen Option : 3

Q.58 Match the machine learning technique with its way of working.

	Machine learning type		Methods
I	Supervised learning	1	Utilizes data that is not labelled and attempts to find patterns by clustering similar objects together
II	Unsupervised learning	2	Work on the principle of reward and punishment
III	Reinforcement	3	Utilizes a labelled dataset

Ans ✓ 1. I – 3; II – 1; III – 2

✗ 2. I – 1; II – 2; III – 3

✗ 3. I – 1; II – 3; III – 2

✗ 4. I – 3; II – 2; III – 1

Question ID : 630680515593

Option 1 ID : 6306802014780

Option 2 ID : 6306802014778

Option 3 ID : 6306802014779

Option 4 ID : 6306802014777

Status : Answered

Chosen Option : 1

Q.59 Which of the following is the mostly used activation function in the area of deep learning?

Ans ✓ 1. Rectified linear unit function

✗ 2. Sigmoid function

✗ 3. Identity function

✗ 4. Step function

Question ID : 630680515600

Option 1 ID : 6306802014805

Option 2 ID : 6306802014808

Option 3 ID : 6306802014807

Option 4 ID : 6306802014806

Status : Answered

Chosen Option : 3

Q.60 In the push down automata, transitional function δ is in the form _____.

Ans ✗ 1. $Q \times \Sigma \rightarrow (Q, \Gamma)$

✗ 2. $Q \times \Sigma \times \Gamma \rightarrow Q$

✗ 3. $Q \times \Sigma \rightarrow Q$

✓ 4. $Q \times (\Sigma \cup \{\lambda\}) \times \Gamma \rightarrow (Q, \Gamma^*)$

Question ID : 630680515549

Option 1 ID : 6306802014603

Option 2 ID : 6306802014604

Option 3 ID : 6306802014602

Option 4 ID : 6306802014601

Status : Answered

Chosen Option : 3

Q.61 How many steps are required to construct a string abbbb from the grammar given by using right most derivation?

$$S \rightarrow aAB$$

$$A \rightarrow bBb$$

$$B \rightarrow A/E$$

Ans 1. 7

2. 4

3. 6

4. 5

Question ID : 630680515548

Option 1 ID : 6306802014600

Option 2 ID : 6306802014597

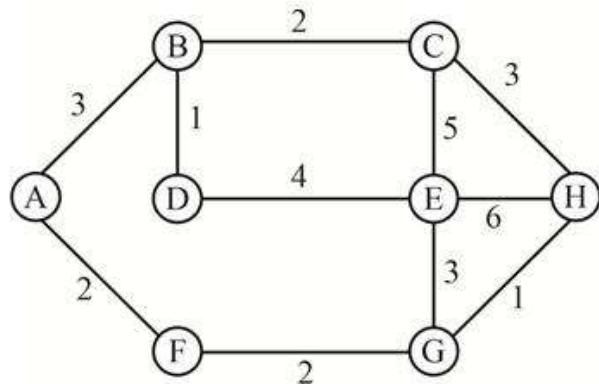
Option 3 ID : 6306802014599

Option 4 ID : 6306802014598

Status : Answered

Chosen Option : 3

Q.62 What is the minimum cost of the spanning tree of the given graph?



Ans 1. 11

2. 13

3. 12

4. 14

Question ID : 630680515531

Option 1 ID : 6306802014529

Option 2 ID : 6306802014531

Option 3 ID : 6306802014530

Option 4 ID : 6306802014532

Status : Answered

Chosen Option : 4

Q.63 Which of the following statement is CORRECT about software testing?

- I. White box testing is performed early in the testing phase.
- II. Black box testing tends to be applied during later stages of testing.

Ans 1. Only II

2. Only I

3. Both I and II

4. Neither I nor II

Question ID : 630680515592

Option 1 ID : 6306802014774

Option 2 ID : 6306802014773

Option 3 ID : 6306802014775

Option 4 ID : 6306802014776

Status : Answered

Chosen Option : 3

Q.64 Which of the following is NOT a process state?

Ans 1. Running

2. Ready

3. Start

4. New

Question ID : 630680515599

Option 1 ID : 6306802014643

Option 2 ID : 6306802014644

Option 3 ID : 6306802014641

Option 4 ID : 6306802014642

Status : Answered

Chosen Option : 4

Q.65 Dot-matrix printers are character printers that print _____ character at a time.

Ans 1. two

2. one

3. three

4. four

Question ID : 630680515522

Option 1 ID : 6306802014494

Option 2 ID : 6306802014493

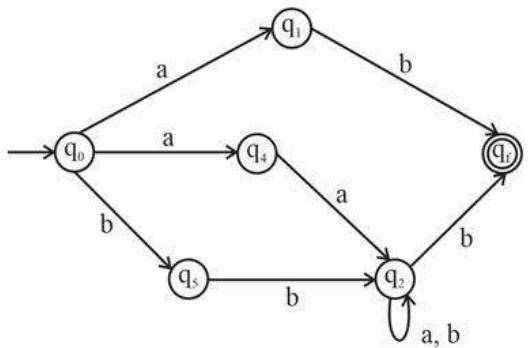
Option 3 ID : 6306802014495

Option 4 ID : 6306802014496

Status : Answered

Chosen Option : 2

Q.66 The given finite automata is equivalent to which of the following regular expression?



- Ans
- 1. $ab + (aa + bb)(a + b)^* b$
 - 2. $ab(aa + b)(a + b)^* a$
 - 3. $(a + b)^*(aa + bb)(a + b)^*$
 - 4. $ab(aa + bb)(a + b)^* b$

Question ID : 630680515545

Option 1 ID : 6306802014587

Option 2 ID : 6306802014588

Option 3 ID : 6306802014585

Option 4 ID : 6306802014586

Status : Answered

Chosen Option : 1

Q.67 Name the phase of the unified process model where customer communication and planning take place.

- Ans
- 1. Inception phase
 - 2. Construction phase
 - 3. Elaboration phase
 - 4. Transition phase

Question ID : 630680515586

Option 1 ID : 6306802014749

Option 2 ID : 6306802014751

Option 3 ID : 6306802014750

Option 4 ID : 6306802014752

Status : Answered

Chosen Option : 3

Q.68 In context of data normalization in database management system, relation is in Boyce-Codd Normal Form if and only if every determinant is a _____.

- Ans
- 1. Alternate key
 - 2. Foreign key
 - 3. Candidate key
 - 4. Non-primary key

Question ID : 630680515570

Option 1 ID : 6306802014687

Option 2 ID : 6306802014685

Option 3 ID : 6306802014686

Option 4 ID : 6306802014688

Status : Answered

Chosen Option : 3

Q.69 Which of the following pair is CORRECT?

- I. Half adder - A combinational circuit that performs the addition of two bits
- II. Full adder - A combinational circuit that performs the addition of three bits

Ans 1. Neither I nor II
 2. Both I and II
 3. Only II
 4. Only I

Question ID : 630680515514

Option 1 ID : 6306802014464

Option 2 ID : 6306802014463

Option 3 ID : 6306802014462

Option 4 ID : 6306802014461

Status : Answered

Chosen Option : 2

Q.70 Match the phases of compiler with its function.

	Phases		Function
I	Intermediate code generator	1	Keeps track of the names used by the program
II	Code generation	2	Create a stream of simple instructions
III	Table management	3	Produces the object code

Ans 1. I – 2; II – 3; III – 1
 2. I – 1; II – 3; III – 2
 3. I – 1; II – 2; III – 3
 4. I – 2; II – 1; III – 3

Question ID : 630680515552

Option 1 ID : 6306802014613

Option 2 ID : 6306802014616

Option 3 ID : 6306802014614

Option 4 ID : 6306802014615

Status : Answered

Chosen Option : 1

Q.71 Which of the following identities of regular expression is NOT correct?

Ans 1. $R^* R^* = R^*$
 2. $\Lambda R = R$
 3. $\phi R = R$
 4. $\phi + R = R$

Question ID : 630680515544

Option 1 ID : 6306802014584

Option 2 ID : 6306802014583

Option 3 ID : 6306802014582

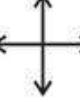
Option 4 ID : 6306802014581

Status : Answered

Chosen Option : 3

Q.72 In the context of Relational Algebra of Database Management System, which of the following is a symbol JOIN operation?

Ans

- 1. 
- 2. 
- 3. 
- 4. 

Question ID : 630680515575

Option 1 ID : 6306802014707

Option 2 ID : 6306802014705

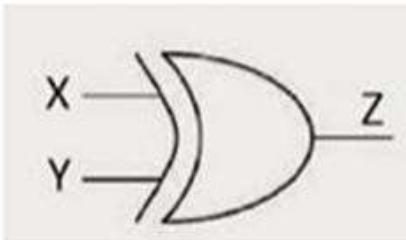
Option 3 ID : 6306802014706

Option 4 ID : 6306802014708

Status : Answered

Chosen Option : 3

Q.73 What is the output function of the given XOR gate?



Ans 1. $Z = X \cdot Y$

2. $Z = XY' + X'Y$

3. $Z = (X + Y)'$

4. $Z = X + Y$

Question ID : 630680515513

Option 1 ID : 6306802014457

Option 2 ID : 6306802014460

Option 3 ID : 6306802014459

Option 4 ID : 6306802014458

Status : Answered

Chosen Option : 2

Q.74 As per ISO 25010 quality model which of the following is not the characteristics which describe quality in use model?

Ans 1. Satisfaction

2. Effectiveness

3. Efficiency

4. Compatibility

Question ID : 630680515591

Option 1 ID : 6306802014772

Option 2 ID : 6306802014769

Option 3 ID : 6306802014770

Option 4 ID : 6306802014771

Status : Answered

Chosen Option : 3

Q.75 The following C function is an example of what type of recursion?

```
int f(int n)
{
    if(n==1)
        return 1;
    else if(n==0)
        return 0;
    else
        return(f(n-1)+f(n-2));
}
```

Ans 1. Tail

2. Linear

3. Head

4. Binary

Question ID : 630680515527

Option 1 ID : 6306802014515

Option 2 ID : 6306802014513

Option 3 ID : 6306802014516

Option 4 ID : 6306802014514

Status : Answered

Chosen Option : 2

Q.76 What is the output of the following postfix expression?

5, 6, 2, +, *, 8, 4, /, -

Ans 1. 37

2. 36

3. 38

4. 39

Question ID : 630680515528

Option 1 ID : 6306802014518

Option 2 ID : 6306802014517

Option 3 ID : 6306802014519

Option 4 ID : 6306802014520

Status : Answered

Chosen Option : 3

Q.77 Convert $(1111)_2$ into decimal equivalents.

Ans 1. 11

2. 15

3. 20

4. 16

Question ID : 630680515525

Option 1 ID : 6306802014505

Option 2 ID : 6306802014506

Option 3 ID : 6306802014508

Option 4 ID : 6306802014507

Status : Answered

Chosen Option : 2

Q.78 Three unbiased dices are thrown, what is the probability of getting a sum of at least 11?

- Ans 1. 11/36
 2. 13/36
 3. 1/2
 4. 1/3

Question ID : 630680515607
Option 1 ID : 6306802014835
Option 2 ID : 6306802014836
Option 3 ID : 6306802014834
Option 4 ID : 6306802014833
Status : Answered
Chosen Option : 3

Q.79 Name the phase of compiler, which separates characters of the source language into groups that logically belong together, these groups are called tokens.

- Ans 1. Lexical analysis
 2. Code optimization
 3. Syntax analysis
 4. Error handling

Question ID : 630680515551
Option 1 ID : 6306802014609
Option 2 ID : 6306802014611
Option 3 ID : 6306802014610
Option 4 ID : 6306802014612
Status : Answered
Chosen Option : 1

Q.80 What is the approximate value of $149.832 \div 25.0138 + 7.10 \times 2.008$?

- Ans 1. 27
 2. 11
 3. 35
 4. 20

Question ID : 630680515603
Option 1 ID : 6306802014819
Option 2 ID : 6306802014818
Option 3 ID : 6306802014820
Option 4 ID : 6306802014817
Status : Answered
Chosen Option : 4

Q.81 What is the least number which when divided by 12, 16, 18 and 30 leaves a remainder of 4 in each case but is completely divisible by 7?

- Ans 1. 4245
 2. 2324
 3. 2884
 4. 4242

Question ID : 630680515606
Option 1 ID : 6306802014830
Option 2 ID : 6306802014832
Option 3 ID : 6306802014831
Option 4 ID : 6306802014829
Status : Answered
Chosen Option : 3

Q.82 Sort the following list using radix sort:

429, 557, 757, 939, 536, 820, 455

What is the output of the algorithm after the first pass?

Ans 1. 820, 455, 536, 557, 757, 429, 939

2. 429, 455, 557, 536, 757, 820, 939

3. 939, 820, 757, 557, 536, 455, 429

4. 820, 429, 536, 939, 455, 557, 757

Question ID : 630680515537

Option 1 ID : 6306802014553

Option 2 ID : 6306802014555

Option 3 ID : 6306802014556

Option 4 ID : 6306802014554

Status : Answered

Chosen Option : 3

Q.83 Match the component of software architecture with its roles.

	Component		Role
I	Control component	1	That implements a complete or partial function i.e. required by the customer
II	Problem domain component	2	Responsible for function that support the processing required in the problem domain
III	Infrastructure component	3	Co-ordinate the invocation of all other problem domain components

Ans 1. I – 3; II – 2; III – 1

2. I – 3; II – 1; III – 2

3. I – 1; II – 3; III – 2

4. I – 1; II – 2; III – 3

Question ID : 630680515587

Option 1 ID : 6306802014753

Option 2 ID : 6306802014755

Option 3 ID : 6306802014756

Option 4 ID : 6306802014754

Status : Answered

Chosen Option : 4

Q.84 Which of the following pair is CORRECT?

I. Associative law : $(x * y) * z = x * (y * z)$

II. Distributive law : $x * (y + z) = (x * y) + (x * z)$

Ans 1. Only II

2. Neither I nor II

3. Both I and II

4. Only I

Question ID : 630680515512

Option 1 ID : 6306802014454

Option 2 ID : 6306802014456

Option 3 ID : 6306802014455

Option 4 ID : 6306802014453

Status : Answered

Chosen Option : 3

Q.85 Consider 2 dimensional array A[10][15]. Assume that each element takes one memory location and base address of array A is 100. Consider the lower bound of row and column as 0. What is the address of A[i][j] if array A is stored in row major form?

- Ans 1. $i + 10j + 100$
 2. $i + 15j + 100$
 3. $10i + j + 100$
 4. $15i + j + 100$

Question ID : 630680515526

Option 1 ID : 6306802014512

Option 2 ID : 6306802014511

Option 3 ID : 6306802014510

Option 4 ID : 6306802014509

Status : Answered

Chosen Option : 1

Q.86

What is the value of $\frac{21}{46} \div \frac{1}{6}$ of $\frac{23}{42} + \frac{96}{576} \times \frac{24}{3} - \left(\frac{88}{56} \times \frac{7}{9} \div \frac{5}{36} \right)$?

- Ans 1. $\frac{9}{2}$
 2. $\frac{7}{2}$
 3. $\frac{5}{2}$
 4. $\frac{11}{2}$

Question ID : 630680515605

Option 1 ID : 6306802014826

Option 2 ID : 6306802014827

Option 3 ID : 6306802014828

Option 4 ID : 6306802014825

Status : Answered

Chosen Option : 3

Q.87 Which of the given option is CORRECT?

- Ans 1. $(16/19) < (3/7) < (40/90)$
 2. $(4/9) < (3/8) < (2/7)$
 3. $(17/27) < (15/22) < (13/17)$
 4. $(2/5) < (11/13) < (90/110)$

Question ID : 630680515608

Option 1 ID : 6306802014837

Option 2 ID : 6306802014840

Option 3 ID : 6306802014839

Option 4 ID : 6306802014838

Status : Answered

Chosen Option : 3

Q.88 Which of the following pair of Application layer protocol of OSI model and its services is CORRECT?

- I. X.400 – Directory
- II. X.500 – Electronic Mail protocol

Ans 1. Only II
 2. Both I and II
 3. Only I
 4. Neither I nor II

Question ID : 630680515582

Option 1 ID : 6306802014734

Option 2 ID : 6306802014735

Option 3 ID : 6306802014733

Option 4 ID : 6306802014736

Status : Answered

Chosen Option : 3

Q.89 Which of the following statement is CORRECT regarding Referential Integrity Constants in Relational Database Management System?

- I. Referential Integrity Constants is a rule that maintains consistency among the rows of two tables (relations).
- II. Referential Integrity rule States that if there is a foreign key in one relation, either each foreign key value must match a primary key value in the other table or else the foreign key value must be null.

Ans 1. Only I
 2. Both I and II
 3. Only II
 4. Neither I nor II

Question ID : 630680515573

Option 1 ID : 6306802014697

Option 2 ID : 6306802014699

Option 3 ID : 6306802014698

Option 4 ID : 6306802014700

Status : Answered

Chosen Option : 3

Q.90 Which of the following formula is used to calculate the sensitivity of a model?

Ans 1. $\frac{FN}{TP + FN}$
 2. $\frac{FP}{TP + FN}$
 3. $\frac{TN}{TP + FN}$
 4. $\frac{TP}{TP + FN}$

Question ID : 630680515599

Option 1 ID : 6306802014802

Option 2 ID : 6306802014804

Option 3 ID : 6306802014801

Option 4 ID : 6306802014803

Status : Answered

Chosen Option : 3

Q.91 Which of the following statement is correct regarding complements?

- I. Complements are used in digital computers for simplifying the subtraction operation and for logical manipulations.
- II. There are two types of complements for each base-r system: the r's complement and (r-1)'s complement.

Ans 1. Only I

2. Both I and II

3. Neither I nor II

4. Only II

Question ID : 630680515511

Option 1 ID : 6306802014449

Option 2 ID : 6306802014451

Option 3 ID : 6306802014452

Option 4 ID : 6306802014450

Status : Answered

Chosen Option : 2

Q.92 In context of computer Database, _____ language includes command to enable users to enter and manipulate data in a database.

Ans 1. Data Integrity

2. Data Manipulation

3. Data Definition

4. Data Security

Question ID : 630680515569

Option 1 ID : 6306802014684

Option 2 ID : 6306802014682

Option 3 ID : 6306802014681

Option 4 ID : 6306802014683

Status : Answered

Chosen Option : 3

Q.93 Match the following algorithms with the data structure it uses.

	Algorithm		Data structure
I	Breadth first search	1	Stacks
II	Heap sort	2	Queue
III	Depth first search	3	Arrays

Ans 1. I – 3; II – 2, III – 1

2. I – 2; II – 3; III – 1

3. I – 1; II – 2; III – 3

4. I – 3; II – 1; III - 2

Question ID : 630680515530

Option 1 ID : 6306802014528

Option 2 ID : 6306802014525

Option 3 ID : 6306802014527

Option 4 ID : 6306802014526

Status : Answered

Chosen Option : 2

Q.94 Database designers use _____ to define the structure of a database (database scheme) which typically includes definition of all data elements of the database and organization of data elements into records, tables etc.

- Ans 1. Data Manipulation Language
 2. Find Command Language
 3. Data Definition Language
 4. Query by example

Question ID : 630680515568
Option 1 ID : 6306802014677
Option 2 ID : 6306802014680
Option 3 ID : 6306802014679
Option 4 ID : 6306802014678
Status : Answered
Chosen Option : 3

Q.95 Choose the CORRECT sequence of steps involved in machine learning cycle.

- Ans 1.

Data identification → Data preparation → Selection of machine learning algorithm → Evaluate the model → Train model → Deploy the model

- 2.

Data identification → Data preparation → Selection of machine learning algorithm → Train model → Deploy the model → Evaluate the model

- 3.

Data identification → Selection of machine learning algorithm → Data preparation → Train model → Evaluate the model → Deploy the model

- 4.

Data identification → Data preparation → Selection of machine learning algorithm → Train model → Evaluate the model → Deploy the model

Question ID : 630680515594
Option 1 ID : 6306802014783
Option 2 ID : 6306802014784
Option 3 ID : 6306802014782
Option 4 ID : 6306802014781
Status : Answered
Chosen Option : 3

Q.96 Given an array X = (22, 33, 55, 88, 96) and key = 88

How many iterations are required to find the key using binary search?

- Ans 1. 3
 2. 2
 3. 4
 4. 1

Question ID : 630680515535
Option 1 ID : 6306802014547
Option 2 ID : 6306802014546
Option 3 ID : 6306802014548
Option 4 ID : 6306802014545
Status : Answered
Chosen Option : 2

Q.97 What is the decimal conversion of $(630.4)_8$?

Ans 1. 640.4

2. 408.5

3. 670

4. 650

Question ID : 630680515510

Option 1 ID : 6306802014446

Option 2 ID : 6306802014445

Option 3 ID : 6306802014448

Option 4 ID : 6306802014447

Status : Answered

Chosen Option : 2

Q.98 Which view of the quality argues that quality is something you immediately recognize but cannot explicitly define according to David Galvin of the Harvard Business school?

Ans 1. Transcendental view

2. User view

3. Manufacturer's view

4. Product view

Question ID : 630680515590

Option 1 ID : 6306802014765

Option 2 ID : 6306802014766

Option 3 ID : 6306802014767

Option 4 ID : 6306802014768

Status : Answered

Chosen Option : 3

Q.99 Which of the following statement is CORRECT?

I. An input device is an electromechanical device that accepts data from the outside world and translates it into a form a computer can interpret.

II. An output device is an electromechanical device that accepts data from a computer and translates them into a form suitable for use by outside world.

Ans 1. Only I

2. Both I and II

3. Only II

4. Neither I nor II

Question ID : 630680515520

Option 1 ID : 6306802014485

Option 2 ID : 6306802014487

Option 3 ID : 6306802014486

Option 4 ID : 6306802014488

Status : Answered

Chosen Option : 3

Q.100 The time dispatcher takes and for the dispatcher to stop one process and start another running is known as _____.

- Ans 1. dispatch response time
 2. dispatch wasting time
 3. dispatch latency
 4. dispatch turnaround time

Question ID : **630680515562**

Option 1 ID : **6306802014654**

Option 2 ID : **6306802014656**

Option 3 ID : **6306802014655**

Option 4 ID : **6306802014653**

Status : **Answered**

Chosen Option : **3**