



Bharat Electronics Limited

Government of India, Ministry of Defence A Navratna Company

Participant ID	870701300022		
Participant Name	PULIPATI KANAKA DURGA PRASAD		
Test Center Name	iON Digital Zone iDZ Kanuru Village		
Test Date	17/12/2023		
Test Time	8:30 AM - 10:30 AM		
Subject	Probationary Engineer Computer Science		

Section: General Aptitude

Q.1 Which language is recognized as a Classical Language by the Government of India?

A -- -

X 1. English

💢 2. Bengali

X 3. Hindi

4. Sanskrit

Question ID: 630680515488
Option 1 ID: 6306802014358
Option 2 ID: 6306802014360
Option 3 ID: 6306802014357
Option 4 ID: 6306802014359
Status: Answered

Chosen Option: 4

Q.2 What is the purpose of pasteurization in food processing?

Ans 💜 1. To destroy pathogenic microorganisms present in the food

X 2. To enhance the colour of the food.

X 3. To add flavour to the food.

X 4. To increase the nutritional content of food.

Question ID: 630680515495 Option 1 ID: 6306802014386 Option 2 ID: 6306802014388

Option 3 ID : **6306802014385** Option 4 ID : **6306802014387**

Status : Answered

Q.3 Which river is known as the "Dakshina Ganga" in India? Ans 1. Godavari X 2. Yamuna X 3. Brahmaputra X 4. Krishna Ouestion ID: 630680515490 Option 1 ID: 6306802014366 Option 2 ID: 6306802014365 Option 3 ID: 6306802014367 Option 4 ID: 6306802014368 Status: Answered Chosen Option: 1 Q.4 Which of the following is a key component of India's infrastructure development? Ans X 1. Deep-sea fishing 2. High-speed railways X 3. Mountaineering facilities X 4. Space exploration Question ID: 630680515491 Option 1 ID: 6306802014371 Option 2 ID: 6306802014370 Option 3 ID: 6306802014372 Option 4 ID: 6306802014369 Status: Answered Chosen Option: 2 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? X 1. The Deoband Movement Ans X 2. The Aligarh Movement 3. The Brahmo Samaj X 4. The Arya Samaj Question ID: 630680515486 Option 1 ID: 6306802014350 Option 2 ID: 6306802014352 Option 3 ID: 6306802014349 Option 4 ID: 6306802014351 Status: Not Answered Chosen Option: --Q.6 What is the primary function of the Reserve Bank of India (RBI)? X 1. Regulating stock markets X 2. Implementing fiscal policy 3. Conducting monetary policy X 4. Managing foreign relations Question ID: 630680515484 Option 1 ID: 6306802014342 Option 2 ID: 6306802014344

Option 3 ID: 6306802014341 Option 4 ID: 6306802014343 Status: Answered

Q.7 Which of the following Ruler was responsible for erecting the iron pillar of Delhi? X 1. Kumara Gupta 🗶 2. Sri Gupta X 3. Samudragupta 4. Chandragupta II Ouestion ID: 630680515487 Option 1 ID: 6306802014356 Option 2 ID: 6306802014355 Option 3 ID: 6306802014354 Option 4 ID: 6306802014353 Status: Not Answered Chosen Option: --Q.8 Which of the following is a characteristic feature of the Animal Kingdom? X 1. Presence of chloroplasts X 2. Autotrophic nutrition X 3. Cell walls made of cellulose Question ID: 630680515494 Option 1 ID: 6306802014383 Option 2 ID: 6306802014382 Option 3 ID: 6306802014381 Option 4 ID: 6306802014384 Status: Not Answered Chosen Option: --Q.9 Which article of the Indian Constitution deals with Fundamental Duties? 1. Article 51A Ans X 2. Article 39C X 3. Article 48A X 4. Article 31B Question ID: 630680515492 Option 1 ID: 6306802014374 Option 2 ID: 6306802014375 Option 3 ID: 6306802014376 Option 4 ID: 6306802014373 Status: Answered Chosen Option: 1 Q.10 Which sports award is considered the highest sporting honour in India? √ 1. Major Dhyan Chand Khel Ratna X 2. Padma Bhushan X 3. Arjuna Award X 4. Dronacharya Award

Question ID : 630680515489

Option 1 ID: 6306802014363 Option 2 ID: 6306802014364 Option 3 ID: 6306802014361

Option 4 ID: **6306802014362**Status: **Answered**

Q.11 What is the primary goal of sustainable development?

X 1. Rapid economic growth at any cost

X 2. Immediate improvement of living standards without considering environmental impact

X 4. Exploitation of natural resources to meet current needs

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

Chosen Option: 3

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

✓ 1. Election Commission of India (ECI)

X 2. National Investigation Agency (NIA)

X 3. Reserve Bank of India (RBI)

X 4. Planning Commission

Question ID: 630680515493 Option 1 ID: 6306802014378 Option 2 ID: 6306802014380 Option 3 ID: 6306802014377 Option 4 ID: 6306802014379

Status: Answered

Chosen Option: 1

Section: Reasoning

Q.1 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 X 1. 341

2. 316

X 3. 329

X 4. 333

Question ID: 630680515508

Option 1 ID: 6306802014440

Option 2 ID: 6306802014437 Option 3 ID: 6306802014439

Option 4 ID: 6306802014438

Status: Answered

Q.2	If, B denotes 'addition', C denotes 'division', and D denotes 'subtraction', then what will be the value of the following equation? 12 D 4 C 2 B 3 = ?				
Ans	✓ 1.13				
	X 2. 14				
	X 3.12				
	X 4.15				
	•				
		Question ID: 630680515506			
		Option 1 ID : 6306802014430			
		Option 2 ID : 6306802014431			
		Option 3 ID : 6306802014432			
		Option 4 ID : 6306802014429 Status : Answered			
		Chosen Option : 1			
		5.00 m			
Q.3	There are 133 boxes kept one above the other. What will be the position bottom whose position from the top is 27th?	of the box from the			
Ans	X 1. 123				
	★ 2.142				
	✗ 3. 139				
	✓ 4. 107				
	4.107				
		Question ID: 630680515497			
		Option 1 ID: 6306802014396			
		Option 2 ID: 6306802014395			
		Option 3 ID : 6306802014393			
		Option 4 ID : 6306802014394			
		Status : Answered Chosen Option : 4			
		Chosen Option . 4			
Q.4	Seven friends Alice, Bob, Carol, David, Eve, Frank, and Grace are sitting table facing the centre. Alice is sitting to the immediate right of Bob. Bo neighbours. Frank is sitting exactly between David and Eve. Grace is not or Eve. Who is sitting between Alice and David? **\times 1. Frank** **\times 2. Eve** **\times 3. Bob	b and Carol are			
	✓ 4. Grace				
		Ouestion ID : 630680515496			
		Option 1 ID : 6306802014391			
		Option 2 ID : 6306802014392			
		Option 3 ID : 6306802014390			
		Option 4 ID : 6306802014389			
		Status : Answered			
		Chosen Option : 4			

Q.5	Which of the following numbers will replace the quality, 13, 15, 12, 16, 11,?	estion mark (?) in the given series?
Ans	✓ 1.17	
	× 2. 16	
	X 3. 18	
	X 4. 15	
		Question ID: 630680515505
		Option 1 ID : 6306802014425
		Option 2 ID : 6306802014426
		Option 3 ID : 6306802014428 Option 4 ID : 6306802014427
		Status : Answered
		Chosen Option: 1
Q.6 Ans	Rohan says, "Ajay's wife is the sister of my father's 1. Sister's husband	only son." How is Ajay related to Rohan?
	🗙 2. Husband	
	✗ 3. Mother's father	
	X 4. Brother	
		Question ID: 630680515501
		Option 1 ID : 6306802014410
		Option 2 ID : 6306802014412 Option 3 ID : 6306802014411
		Option 4 ID : 6306802014411
		Status : Answered
		Chosen Option: 1
Q.7 Ans	Which of the following numbers will replace the qual 1076, ?, 688, 494, 300, 106 1.882 2.872 3.831	estion mark (?) in the given series?
	★ 4. 858	
		Outstier ID - (20(00515504
		Question ID : 630680515504 Option 1 ID : 6306802014423
		Option 2 ID : 6306802014424
		Option 3 ID : 6306802014421
		Option 4 ID : 6306802014422
		Status : Answered Chosen Option : 1
		Silveri opiioni i
Q.8	Which two signs should be interchanged to make the	he given equation correct?
١	16 = 4 × 5 ÷ 2 - 8 + 18	
Ans	X 1. + and -	
	X 2. + and ×	
	X 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 : ${\bf 3}$

Q.9 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 X 1. Both conclusions I and II follow

X 2. Neither conclusion I nor II follows

X 3. Only conclusion II follows

4. Only conclusion I follows

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

Chosen Option: 4

Q.10 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 X 1. Puppy

X 2. Chick

X 3. Calf

4. Cub

Question ID: 630680515502 Option 1 ID: 6306802014416 Option 2 ID: 6306802014415 Option 3 ID: 6306802014413 Option 4 ID: 6306802014414

Status: Answered

Chosen Option : 4

Q.11 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 X 1. REGADN

X 2. REGDND

X 4. RGEDAN

Question ID: 630680515500

Option 1 ID: 6306802014405 Option 2 ID: 6306802014406 Option 3 ID: 6306802014408

Option 4 ID : **6306802014407**

Status: Answered

Q.12 Which of the following letter will replace the question mark (?) in the given series? R, U, X, A, D, ? √ 1. G Ans X 2. H **X** 3. F **X** 4.1

Question ID: 630680515499 Option 1 ID: 6306802014401 Option 2 ID: 6306802014403 Option 3 ID: 6306802014402 Option 4 ID: 6306802014404 Status: Answered

Chosen Option: 1

Q.13 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. VWX

X 2. RSU

X 3. JKM

× 4. FGI

Question ID: 630680515503 Option 1 ID: 6306802014419 Option 2 ID: 6306802014417 Option 3 ID: 6306802014418 Option 4 ID: 6306802014420 Status: Answered

Chosen Option: 1

Section: Question based on Computer Science Engineering

Q.1 Choose the CORRECT sequence of steps involved in machine learning cycle.

Ans

 $Data \ identification \rightarrow Data \ preparation \rightarrow Selection \ of \ machine \ learning \ algorithm \rightarrow Train \ model \rightarrow Evaluate \ the$ $model \rightarrow Deploy$ the model



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



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



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

> Question ID: 630680515594 Option 1 ID: 6306802014781 Option 2 ID: 6306802014783 Option 3 ID: 6306802014782 Option 4 ID: 6306802014784

Status: Answered Chosen Option: 1

Q.2 Which of the following identities of regular expression is NOT correct?

Ans

$$\times$$
 1. R* R* = R*

$$\checkmark$$
 2. $\phi R = R$

$$\times$$
 3. $\Lambda R = R$

$$\times$$
 4. $\phi + R = R$

Question ID: 630680515544

Option 1 ID: 6306802014584

Option 2 ID: 6306802014582

Option 3 ID: 6306802014583

Option 4 ID: **6306802014581**Status: **Answered**

Chosen Option : 2

Q.3 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. Neither I nor II

X 2. Only I

X 3. Only II

X 4. Both I and II

Question ID: 630680515582

Option 1 ID: 6306802014736

Option 2 ID: 6306802014733

Option 3 ID: 6306802014734

Option 4 ID : **6306802014735** Status : **Answered**

Chosen Option: 3

Q.4 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

X 1. Neither I nor II

X 2. Only I

X 3. Only II

4. Both I and II

Ouestion ID: 630680515520

Option 1 ID: 6306802014488

Option 2 ID: 6306802014485

Option 3 ID: 6306802014486

Option 4 ID: 6306802014487

Status: Answered

Q.5 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

X 1. Belady's Anomaly

X 2. Starvation

X 3. Aging

4. Convoy effect

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

Status: Answered

Chosen Option: 4

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

Ans

× 1. (1100)*

 \times 2. $(1010)^* + 10$

X 3. (1010)*

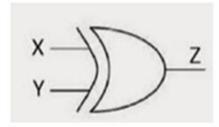
√ 4. 10 + (1010)*

Question ID: 630680515543 Option 1 ID: 6306802014580 Option 2 ID: 6306802014579 Option 3 ID: 6306802014577

Option 4 ID: 6306802014578 Status: Answered

Chosen Option: 4

Q.7 What is the output function of the given XOR gate?



Ans

$$\times$$
 1. $Z = X.Y$

$$\times$$
 2. $Z = X + Y$

$$X = (X + Y)'$$

$$\checkmark$$
 4. $Z = XY' + X'Y$

Question ID: 630680515513

Option 1 ID: 6306802014457 Option 2 ID: 6306802014458 Option 3 ID: 6306802014459

Option 4 ID: 6306802014460

Status: Answered

Q.8 Three unbiased dices are thrown, what is the probability of getting a sum of at least 11?

Ans

X 1. 1/2

X 2. 13/36

X 3. 1/3

4. 11/36

Question ID: 630680515607

Option 1 ID: 6306802014834

Option 2 ID: 6306802014836

Option 3 ID: 6306802014833

Option 4 ID: 6306802014835

Status: Not Answered

Chosen Option: --

Q.9 Which of the following is NOT part of the mechanical diagram of the Turing machine?

Ans X 1. Finite control

2. Queue

X 3. Read-write head

X 4. Input tape

Question ID: 630680515550

Option 1 ID: 6306802014607

Option 2 ID: 6306802014608

Option 3 ID: 6306802014606

Option 4 ID: 6306802014605

Status: Answered

Chosen Option: 2

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

 \times 1. $\frac{11}{2}$

X 2.

 $\sqrt{3}$. $\frac{9}{2}$

× 4. $\frac{7}{2}$

Question ID: 630680515605

Option 1 ID: 6306802014825

Option 2 ID: 6306802014828

Option 3 ID: 6306802014826

Option 4 ID: 6306802014827

Status: Answered

	waterfall model?	model to the classical
Ans	X 1. Efficient error correction	
	X 2. Easy to accommodate change request	
	X 4. Overlapping of phases	
	** · · · · · · · · · · · · · · · · · ·	
		Question ID : 630680515585 Option 1 ID : 6306802014747 Option 2 ID : 6306802014746 Option 3 ID : 6306802014745 Option 4 ID : 6306802014748 Status : Answered Chosen Option : 2
Q.12	Full-Subtractor has inputs and outputs.	
Ans	★ 1. 2; 2	
	✓ 2. 3; 2	
	★ 3. 2; 3	
	★ 4. 3; 3	
		Question ID : 630680515515 Option 1 ID : 6306802014468
		Option 2 ID : 6306802014465
		Option 3 ID: 6306802014466
		Option 4 ID : 6306802014467
		Status : Answered
		Chosen Option : 2
	In context of OSI model of computer networks layer provides establishing, maintaining and transmitting a dialogue between two en	
		means of d users.
	establishing, maintaining and transmitting a dialogue between two en 1. Transport 2. Session 3. Presentation	means of
	establishing, maintaining and transmitting a dialogue between two en 1. Transport 2. Session 3. Presentation	Question ID : 630680515583 Option 1 ID : 6306802014737 Option 2 ID : 6306802014738
	establishing, maintaining and transmitting a dialogue between two en 1. Transport 2. Session 3. Presentation	Question ID : 630680515583 Option 1 ID : 6306802014737 Option 2 ID : 6306802014738 Option 3 ID : 6306802014739
	establishing, maintaining and transmitting a dialogue between two en 1. Transport 2. Session 3. Presentation	Question ID : 630680515583 Option 1 ID : 6306802014737 Option 2 ID : 6306802014738
	establishing, maintaining and transmitting a dialogue between two en 1. Transport 2. Session 3. Presentation	Question ID : 630680515583 Option 1 ID : 6306802014737 Option 2 ID : 6306802014738 Option 3 ID : 6306802014739 Option 4 ID : 6306802014740
Ans	establishing, maintaining and transmitting a dialogue between two en 1. Transport 2. Session 3. Presentation 4. Application	Question ID: 630680515583
Ans	establishing, maintaining and transmitting a dialogue between two en X 1. Transport 2. Session 3. Presentation 4. Application Identify the category of the multithreading which allow a program to c if part of it is blocked or is performing a lengthy operation. X 1. Resource sharing	Question ID: 630680515583
Ans ().14	establishing, maintaining and transmitting a dialogue between two en 1. Transport 2. Session 3. Presentation 4. Application	Question ID: 630680515583
Ans	establishing, maintaining and transmitting a dialogue between two en X 1. Transport 2. Session 3. Presentation 4. Application Identify the category of the multithreading which allow a program to c if part of it is blocked or is performing a lengthy operation. X 1. Resource sharing	Question ID: 630680515583
Ans	establishing, maintaining and transmitting a dialogue between two en X 1. Transport 2. Session X 3. Presentation X 4. Application Identify the category of the multithreading which allow a program to cif part of it is blocked or is performing a lengthy operation. X 1. Resource sharing X 2. Economy	Question ID: 630680515583

Q.15 The time dispatcher takes and for the dispatcher to stop one process and start another running is known as _

Ans

✓ 1. dispatch latency

X 2. dispatch wasting time

X 3. dispatch turnaround time

X 4. dispatch response time

Question ID: 630680515562 Option 1 ID: 6306802014655 Option 2 ID: 6306802014656 Option 3 ID: 6306802014653 Option 4 ID: 6306802014654 Status: Answered

Chosen Option: 1

Q.16 How many distinct binary tress are constructed using 5 nodes?

Ans X 1. 30

X 2. 5

X 3. 16

4. 42

Question ID: 630680515532 Option 1 ID: 6306802014536 Option 2 ID: 6306802014533 Option 3 ID: 6306802014535 Option 4 ID: 6306802014534 Status: Not Answered

Chosen Option: --

Q.17 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
Ш	Infrastructure component	3	Co-ordinate the invocation of all other problem domain components

Question ID: 630680515587

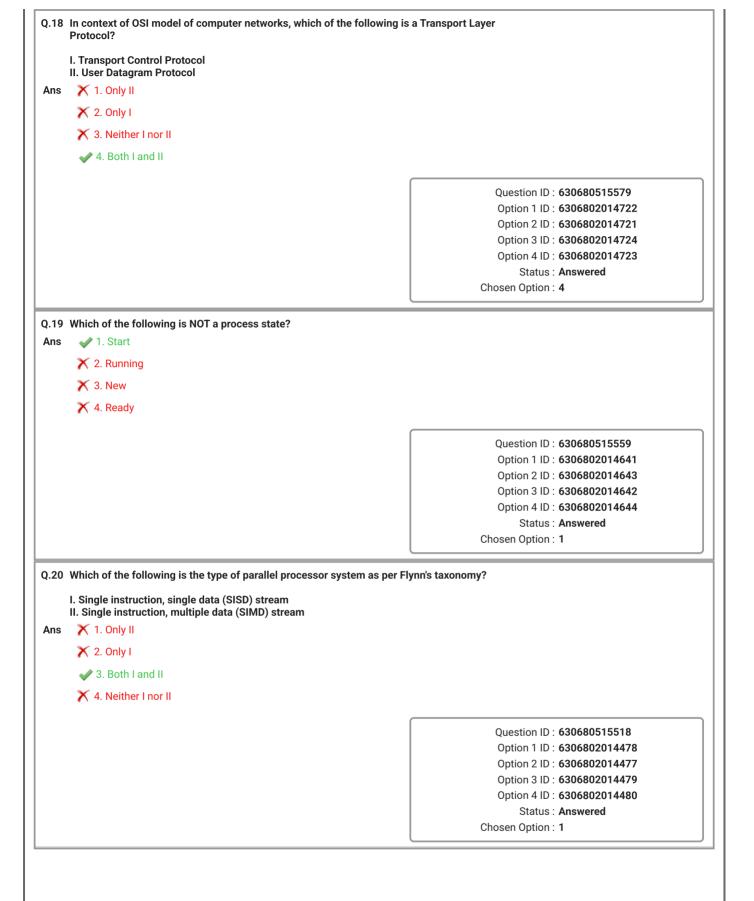
Option 1 ID: 6306802014755

Option 2 ID: 6306802014753

Option 3 ID: 6306802014756

Option 4 ID: 6306802014754

Status: Answered



X 1. Validation testing Ans X 2. System testing X 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: Not Answered Chosen Option: -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. X 1. Hit X 2. Relation X 3. Field 4. Trigger Question ID: 630680515574 Option 1 ID: 6306802014704 Option 2 ID: 6306802014702 Option 3 ID: 6306802014703 Option 4 ID: 6306802014701 Status: Answered Chosen Option: 4 Q.23 In context of computer networks which of the following is a data transmission mode? I. Simplex II. Half Simplex III. Full Duplex Ans X 1. Only II and III 2. Only I and III X 3. I, II and III X 4. Only I and II Question ID: 630680515576 Option 1 ID: 6306802014710 Option 2 ID: 6306802014711 Option 3 ID: 6306802014712 Option 4 ID: 6306802014709 Status: Answered Chosen Option: 3

_ begins at the vortex of the spiral and concentrate on each component of the

Q.21

software as implemented in source code.

enter and manipulate data in a database. 1. Data Manipulation Ans X 2. Data Definition X 3. Data Integrity X 4. Data Security Question ID: 630680515569 Option 1 ID: 6306802014682 Option 2 ID: 6306802014681 Option 3 ID: 6306802014684 Option 4 ID: 6306802014683 Status: Answered Chosen Option: 1 Q.25 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 X 1. Front = 3 Rear = 6 X 2. Front = 4 Rear = 7 X 4. Front = 1 Rear = 4 Question ID: 630680515529 Option 1 ID: 6306802014524 Option 2 ID: 6306802014523 Option 3 ID: 6306802014522 Option 4 ID: 6306802014521 Status: Not Answered Chosen Option: --Q.26 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? **1**. 820, 455, 536, 557, 757, 429, 939 Ans X 2. 939, 820, 757, 557, 536, 455, 429 X 3. 820, 429, 536, 939, 455, 557, 757 **X** 4. 429, 455, 557, 536, 757, 820, 939 Question ID: 630680515537 Option 1 ID: 6306802014553 Option 2 ID: 6306802014556 Option 3 ID: 6306802014554 Option 4 ID: 6306802014555 Status: Not Answered Chosen Option: --

language includes command to enable users to

Q.24 In context of computer Database,

Q.27	Any address generated by the CPU is commonly referred to as aseen by the memory unit i.e. the one loaded into the memory address re	
Ans	1. logical address; absolute address	
70	X 2. absolute address; physical address	
	X 3. physical address; relocatable address	
	 ✓ 4. logical address; physical address 	
	4. Togical address, physical address	
		Question ID: 630680515566 Option 1 ID: 6306802014669 Option 2 ID: 6306802014672 Option 3 ID: 6306802014671 Option 4 ID: 6306802014670 Status: Answered
		Chosen Option : 4
Q.28	Which of the following statement is CORRECT about software testing?	
	White box testing is performed early in the testing phase. Black box testing tends to be applied during later stages of testing.	
Ans	X 1. Neither I nor II	
	★ 2. Only II	
	X 4. Only I	
		Question ID: 630680515592 Option 1 ID: 6306802014776 Option 2 ID: 6306802014774 Option 3 ID: 6306802014775 Option 4 ID: 6306802014773 Status: Answered Chosen Option: 3
Q.29	Database designers use to define the structure of a database which typically includes definition of all data elements of the database data elements into records, tables etc.	(database scheme) and organization of
Ans	★ 1. Query by example	
	X 2. Find Command Language	
	X 3. Data Manipulation Language	
	✓ 4. Data Definition Language	
		Question ID: 630680515568 Option 1 ID: 6306802014678 Option 2 ID: 6306802014680 Option 3 ID: 6306802014677 Option 4 ID: 6306802014679 Status: Answered Chosen Option: 4

Q.30 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 **1.2**

X 2. 3

X 3. 1

X 4. 4

Question ID: 630680515535

Option 1 ID: 6306802014546

Option 2 ID: 6306802014547

Option 3 ID: 6306802014545 Option 4 ID: 6306802014548

Status: Answered

Chosen Option: 1

Q.31 Which of the following is the CORRECT sequence of the phases of a compiler?

X 1. Lexical analysis, syntax analysis, intermediate code generation, code generation, code

💢 2. Lexical analysis, intermediate code generation, syntax analysis, code generation, code optimization

X 3. Lexical analysis, intermediate code generation, syntax analysis, code optimization, code generation

 ✓ 4. Lexical analysis, syntax analysis, intermediate code generation, code optimization, code generation

Question ID: 630680515558

Option 1 ID: 6306802014639

Option 2 ID: 6306802014638

Option 3 ID: 6306802014637

Option 4 ID: 6306802014640

Status: Answered

Chosen Option: 4

Q.32 What is the decimal conversion of $(1010.011)_2$?

X 1. 14 Ans

2. 10.375

X 3. 11.375

X 4. 12

Question ID: 630680515509

Option 1 ID: 6306802014444

Option 2 ID: 6306802014441

Option 3 ID: 6306802014442 Option 4 ID: 6306802014443

Status: Answered

Q.33 Which of the following is the external sorting?

Ans

✓ 1. Merge sort

X 2. Insertion sort

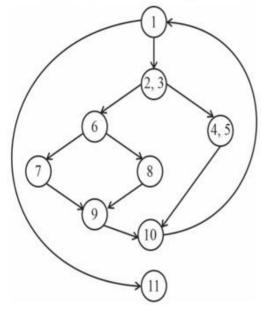
X 3. Selection sort

X 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.34 What is the cyclomatic complexity of the given flow graph?



Ans 💜 1. 4

X 2. 5

X 3. 3

X 4. 6

Question ID: 630680515589

Option 1 ID: 6306802014762

Option 2 ID: 6306802014763

Option 3 ID: 6306802014761

Option 4 ID: 6306802014764

Status: Not Answered

Q.35 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
п	Perfective	2	Usually required for porting the software to work in new environment
Ш	Adaptive	3	Carried out to correct errors that were not discovered during the product development phase

Ans X 1. I - 3; II - 2; III - 1

X 2. I − 1; II − 3; III − 2

√ 3. I − 3; II − 1; III − 2

X 4. I − 1; II − 2; III − 3

Question ID: 630680515584 Option 1 ID: 6306802014741 Option 2 ID: 6306802014744 Option 3 ID: 6306802014743 Option 4 ID: 6306802014742

Status: Answered

Chosen Option: 3

Q.36 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?

X 1. 30 percent

X 2. 33.33 percent

X 4. 50.66 percent

Ouestion ID: 630680515601 Option 1 ID: 6306802014811 Option 2 ID: 6306802014810 Option 3 ID: 6306802014809

Option 4 ID: 6306802014812 Status: Answered

Chosen Option: 3

Q.37 Dot-matrix printers are character printers that print _____ character at a time.

Ans

✓ 1. one

X 2. three

X 3. four

X 4. two

Question ID: 630680515522

Option 1 ID: 6306802014493

Option 2 ID: 6306802014495

Option 3 ID: 6306802014496

Option 4 ID: 6306802014494

Status: Not Answered

Q.38 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 X 1. Only II

X 2. Only I

3. Both I and II

X 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.39 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 X 1. Only I, II and III

X 2. Only II, III and IV

3. I, II, III and IV

X 4. Only I, III, IV

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

Status: Answered

Chosen Option : 3

Q.40 Which of the following machine learning algorithm does NOT use clustering?

Ans X 1. K-Medians

X 2. K-means

3. Linear Discriminant Analysis

X 4. Expectation Maximization

Question ID : 630680515595

Option 1 ID: 6306802014786 Option 2 ID: 6306802014785

Option 3 ID : **6306802014788**

Option 4 ID: 6306802014787

Status: Answered

Q.41 Which of the following algorithms is an example of the divide and conquer approach? 1. Quick sort Ans X 2. Prim's algorithm X 3. Matrix-chain multiplication X 4. Longest common subsequence Ouestion ID: 630680515534 Option 1 ID: 6306802014541 Option 2 ID: 6306802014542 Option 3 ID: 6306802014543 Option 4 ID: 6306802014544 Status: Answered Chosen Option: 1 is a combinational circuit that selects binary information from one of many input lines and directs it to a single output line. 1. digital multiplexer Ans X 2. half subtractor X 3. full adder X 4. half adder Question ID: 630680515516 Option 1 ID: 6306802014470 Option 2 ID: 6306802014471 Option 3 ID: 6306802014472 Option 4 ID: 6306802014469 Status: Answered Chosen Option: 1 Q.43 Which of the following is the single path shortest path algorithm? √ 1. Dijkstra's algorithm X 2. Tree search X 3. Binary search X 4. Topological sort Question ID: 630680515541 Option 1 ID: 6306802014571 Option 2 ID: 6306802014572 Option 3 ID: 6306802014570 Option 4 ID: 6306802014569 Status: Answered Chosen Option: 1 Q.44 According to memory hierarchy as one goes down the hierarchy what will NOT occur? √ 1. Increasing frequency of access of the memory by the processor X 2. Decreasing cost per bit X 3. Increasing capacity X 4. Increasing access time Question ID: 630680515524 Option 1 ID: 6306802014504

Option 1 ID: 6306802014504
Option 2 ID: 6306802014501
Option 3 ID: 6306802014502
Option 4 ID: 6306802014503
Status: Answered

ocon Ontion : 1

Chosen Option : ${\bf 1}$

Question ID: 630680515602
Option 1 ID: 6306802014815
Option 2 ID: 6306802014813
Option 3 ID: 6306802014814
Option 4 ID: 6306802014816
Status: Answered

Chosen Option: 3

Q.46 What is the approximate value of 149.832 ÷ 25.0138 + 7.10 × 2.008?

Ans 💜 1. 20

X 2. 27

X 3. 35

X 4. 11

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

Chosen Option: 1

Q.47 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 X 1. Only I

X 2. Only II

3. Both I and II

X 4. Neither I nor II

Question ID: 630680515597

Option 1 ID: 6306802014793

Option 2 ID: 6306802014794

Option 3 ID : **6306802014795**

Option 4 ID: 6306802014796

Status: Not Answered

	5, 6, 2, +, *, 8, 4, /, -	
Ans	★ 1.39	
	✓ 2. 38	
	★ 3.37	
	X 4. 36	
		Question ID : 630680515528
		Option 1 ID : 6306802014520 Option 2 ID : 6306802014519
		Option 3 ID : 6306802014518
		Option 4 ID : 6306802014517
		Status : Answered
		Chosen Option : 2
	In context of OSI model of computer networks layer provides se support end users of networks and is a collection of miscellaneous prot commonly used applications such as electronic mail, file transfer etc.	ervices that directly ocols for various
Ans	✓ 1. Application	
	X 2. Session	
	X 3. Presentation	
	X 4. Transport	
		Question ID : 630680515580
		Option 1 ID : 6306802014726 Option 2 ID : 6306802014727
		Option 3 ID : 6306802014725
		Option 4 ID : 6306802014728
		Status : Answered
		Chosen Option : 1
Q.50	Which of the following is NOT the part of the organization of C programs Activation Record?	ning language
Ans	X 1. Argument count	
	X 2. Local data	
	★ 4. Return address	
		Question ID: 630680515557
		Option 1 ID : 6306802014635 Option 2 ID : 6306802014634
		Option 3 ID : 6306802014633
		Option 4 ID : 6306802014636
		Status : Not Answered

Chosen Option: --

Q.48 What is the output of the following postfix expression?

Q.51 Match the following algorithm with its average complexity.

	Algorithm		Average Complexity
Ι	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)

X 2. I − 1; II − 4; III − 2; IV − 3

★ 3. I – 3; II – 1; III – 2; IV – 4

✓ 4. I – 2; II – 3; III – 4; IV – 1

Question ID: 630680515542 Option 1 ID: 6306802014576 Option 2 ID: 6306802014573 Option 3 ID: 6306802014574

Option 3 ID : **6306802014574** Option 4 ID : **6306802014575**

Status : **Answered** Chosen Option : **4**

Q.52 Which of the following formula is used to calculate the sensitivity of a model?

Ans

$$\checkmark$$
 1. $\frac{TP}{TP + FN}$

$$\times$$
 2. $\frac{TN}{TP + FN}$

$$\times$$
 3. $\frac{FN}{TP + FN}$

$$\times$$
 4. $\frac{FP}{TP + FN}$

Question ID: 630680515599

Option 1 ID: 6306802014803

Option 2 ID: 6306802014801

Option 3 ID : **6306802014802**

Option 4 ID: 6306802014804

Status: Not Answered

Q.53 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
п	Unsupervised learning	2	Work on the principle of reward and punishment
III	Reinforcement	3	Utilizes a labelled dataset

Ans

X 1. I − 1; II − 2; III − 3

√ 2. I − 3; II − 1; III − 2

X 3. I − 1; II − 3; III − 2

X 4. I − 3; II − 2; III − 1

Question ID: 630680515593
Option 1 ID: 6306802014778
Option 2 ID: 6306802014780
Option 3 ID: 6306802014779
Option 4 ID: 6306802014777

Status : **Answered** Chosen Option : **2**

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

Ans X 1. self-supporting

2. independent

X 3. co-operating

X 4. dependent

Question ID: 630680515560
Option 1 ID: 6306802014648
Option 2 ID: 6306802014647
Option 3 ID: 6306802014645
Option 4 ID: 6306802014646
Status: Answered

Q.55 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. 50

X 2. 9700

X 3. 150

X 4. 100

Question ID: 630680515598
Option 1 ID: 6306802014798
Option 2 ID: 6306802014800
Option 3 ID: 6306802014799
Option 4 ID: 6306802014797
Status: Not Answered

Chosen Option: --

Q.56 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 X 1. 69 : 57

X 2. 59: 57

X 3. 49 : 37

4. 59 : 67

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

Status : **Answered** Chosen Option : **2**

Q.57 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 X 1. 80, 36, 12, 93, 44, 23, 26, 56, 46, 57

2. 80, 36, 12, 93, 44, 23, 26, 57, 56, 46

X 3. 12, 23, 26, 36, 44, 46, 56, 57, 80, 93

X 4. 80, 46, 12, 93, 44, 23, 26, 57, 56, 36

Question ID: 630680515538

Option 1 ID : **6306802014560** Option 2 ID : **6306802014558**

Option 3 ID: **6306802014557**

Option 4 ID: **6306802014559** Status: **Answered**

Q.58 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. Both I and II

💢 2. Only I

X 3. Neither I nor II

X 4. Only II

Question ID: 630680515514 Option 1 ID: 6306802014463 Option 2 ID: 6306802014461 Option 3 ID: 6306802014464

Option 4 ID : **6306802014462**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. F

1. Rectified linear unit function

X 2. Step function

X 3. Identity function

X 4. Sigmoid function

Question ID: 630680515600 Option 1 ID: 6306802014805 Option 2 ID: 6306802014806 Option 3 ID: 6306802014807 Option 4 ID: 6306802014808

Status : Answered

Chosen Option: 4

Q.60 Which of the following is the CORRECT for O- notation?

Ans 🚀 1.

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

X 2

 $O\left(g\left(n\right)\right)=\left\{ f\left(n\right)\text{: there exist positive constant }C_{1},C_{2}\text{ and }n_{o}\text{ such that }O\leq C_{1}\,g\left(n\right)\leq f\left(n\right)\leq C_{2}\,g\left(n\right)\text{ for all }n\geq n_{o}\right\}$

X a

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

X 4.

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

Question ID: 630680515540

Option 1 ID: 6306802014565 Option 2 ID: 6306802014568 Option 3 ID: 6306802014567

Option 4 ID : **6306802014566**

Status: Answered

Q.61 Which of the following is NOT the problems of synchronization?

X 1. The Bounded-Buffer problem Ans

2. The Knapsack problem

X 3. The Dining-Philosophers problem

X 4. The Readers-Writer problem

Question ID: 630680515564 Option 1 ID: 6306802014661 Option 2 ID: 6306802014662 Option 3 ID: 6306802014664 Option 4 ID: 6306802014663 Status: Answered

Chosen Option: 1

Q.62 K-Nearest Neighbours algorithm is a _ classification algorithm that classifies new data point based on the nearest data point.

√ 1. Supervised Ans

X 2. Reinforcement

X 3. Unsupervised

X 4. Deep learning

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

Status: Answered Chosen Option: 1

Q.63 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 X 1. I - 1; II - 2; III - 3

X 2. I − 1; II − 3; III − 2

√ 3. I − 2; II − 3; III − 1

X 4. I − 2; II − 1; III − 3

Question ID: 630680515552 Option 1 ID: 6306802014614 Option 2 ID: 6306802014616 Option 3 ID: 6306802014613

Option 4 ID: 6306802014615

Status: Answered

Q.64 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 from?

Ans X 1. 10i + j + 100

√ 2. 15i + j + 100

X 3. i + 15j + 100

X 4. i + 10j + 100

Question ID: 630680515526
Option 1 ID: 6306802014510
Option 2 ID: 6306802014509
Option 3 ID: 6306802014511
Option 4 ID: 6306802014512
Status: Not Answered

Chosen Option: --

Q.65 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

X 2. Product view

X 3. Manufacturer's view

X 4. User view

Question ID: 630680515590
Option 1 ID: 6306802014765
Option 2 ID: 6306802014768
Option 3 ID: 6306802014767
Option 4 ID: 6306802014766
Status: Answered

Chosen Option : 4

Q.66 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 X 1. Only I

2. Both I and II

X 3. Only II

X 4. Neither I nor II

Question ID : 630680515512 Option 1 ID : 6306802014453 Option 2 ID : 6306802014455 Option 3 ID : 6306802014454 Option 4 ID : 6306802014456

Status : **Answered** Chosen Option : **2**

Q.67 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 X 1. I - 4; II - 2; III - 1; IV - 3

✓ 2. I – 4; II – 3; III – 2; IV – 1

※ 3. I − 3; II − 4; III − 1; IV − 2

X 4. I − 2; II − 3; III − 4; IV − 1

Question ID: 630680515547

Option 1 ID: 6306802014595

Option 2 ID: 6306802014596

Option 3 ID: 6306802014594

Option 4 ID: 6306802014593 Status: Answered

Chosen Option: 2

Q.68 In the push down automata, transitional function δ is in the form _____.

$$\checkmark$$
 1. $Q \times (\Sigma U \{\lambda\}) \times \Gamma \rightarrow (Q, \Gamma^*)$

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

 \times 3. $Q \times \Sigma \rightarrow (Q, \Gamma)$

 \times 4. Q \times $\Sigma \rightarrow$ Q

Question ID: 630680515549

Option 1 ID: 6306802014601

Option 2 ID: 6306802014604

Option 3 ID: 6306802014603

Option 4 ID: 6306802014602

Status: Answered

Chosen Option: 3

Q.69 Parser is categorized into which type of context-free grammar?

Ans

X 1. One

2. Two

X 3. Three

X 4. Four

Question ID: 630680515553

Option 1 ID: 6306802014617

Option 2 ID: 6306802014618

Option 3 ID: 6306802014619

Option 4 ID: 6306802014620

Status: Not Answered

Q.70 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 X 1. Neither I nor II

🗙 2. Only II

X 3. Only I

4. Both I and II

Question ID: 630680515511
Option 1 ID: 6306802014452
Option 2 ID: 6306802014450
Option 3 ID: 6306802014449
Option 4 ID: 6306802014451
Status: Answered

Chosen Option: 4

Q.71 Which of the following is NOT an input device?

Ans X 1. Speech recognition devices

X 2. Keyboard

X 4. Point and draw devices

Question ID: 630680515521
Option 1 ID: 6306802014491
Option 2 ID: 6306802014489
Option 3 ID: 6306802014492
Option 4 ID: 6306802014490
Status: Answered

Chosen Option: 3

Q.72 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 X 1. I - 3; II - 2, III - 1

X 2. I - 3; II - 1; III - 2

X 3. I − 1; II − 2; III − 3

√ 4. I – 2; II – 3; III – 1

Question ID: 630680515530 Option 1 ID: 6306802014528 Option 2 ID: 6306802014526 Option 3 ID: 6306802014527 Option 4 ID: 6306802014525

Status : Answered

Question ID: 630680515570
Option 1 ID: 6306802014685
Option 2 ID: 6306802014687
Option 3 ID: 6306802014688
Option 4 ID: 6306802014686
Status: Answered

Chosen Option : 4

Q.74 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

 $C \rightarrow Designing forms$ (custom screens) for displaying and entering data

Ans \times 1. A \rightarrow B \rightarrow C

4. Candiate key

 $X \stackrel{?}{=} B \rightarrow A \rightarrow C$

 $X : C \rightarrow A \rightarrow B$

 \checkmark 4. A \rightarrow C \rightarrow B

Question ID: 630680515567 Option 1 ID: 6306802014673 Option 2 ID: 6306802014674 Option 3 ID: 6306802014676 Option 4 ID: 6306802014675 Status: Answered

Chosen Option: 1

Q.75 Convert $(1111)_2$ into decimal equivalents.

Ans X 1. 11

X 2. 20

3. 15

X 4. 16

Question ID : **630680515525** Option 1 ID : **6306802014505** Option 2 ID : **6306802014508**

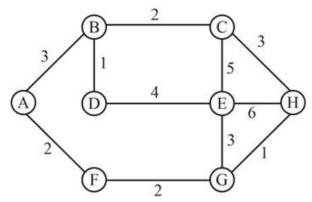
Option 3 ID: 6306802014506 Option 4 ID: 6306802014507

Status : **Answered**

 $S \rightarrow aAB$ $A \rightarrow bBb$ $B \rightarrow A/E$ Ans **X** 1.7 **2**. 5 **X** 3. 4 **X** 4. 6 Question ID: 630680515548 Option 1 ID: 6306802014600 Option 2 ID: 6306802014598 Option 3 ID: 6306802014597 Option 4 ID: 6306802014599 Status: Not Answered Chosen Option: --Q.77 Context free grammar is _____ grammar according to the Chomsky hierarchy. Ans X 1. Type 1 ✓ 2. Type 2 X 3. Type 0 X 4. Type 3 Question ID: 630680515546 Option 1 ID: 6306802014591 Option 2 ID: 6306802014590 Option 3 ID: 6306802014592 Option 4 ID: 6306802014589 Status: Not Answered Chosen Option: --Q.78 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** X 1. 70, 20, 80, 10, 5, 30, 50 2. 80, 20, 70, 10, 5, 30, 50 **X** 3. 80, 70, 50, 30, 20, 10, 5 **X** 4. 5, 10, 20, 30, 50, 70, 80 Question ID: 630680515533 Option 1 ID: 6306802014539 Option 2 ID: 6306802014540 Option 3 ID: 6306802014538 Option 4 ID: 6306802014537 Status: Answered Chosen Option: 3

Q.76 How many steps are required to construct a string abbbb from the grammar given by using right most derivation?

Q.79 What is the minimum cost of the spanning tree of the given graph?



Ans X 1. 13

X 2. 12

3. 14

X 4. 11

Question ID: 630680515531

Option 1 ID: 6306802014531

Option 2 ID: 6306802014530

Option 3 ID: 6306802014532

Option 4 ID: **6306802014529** Status: **Answered**

Chosen Option : 3

Q.80 In the context of Relational Algebra of Database Management System, which of the following is a symbol JOIN operation?

Ans









Question ID: 630680515575

Option 1 ID: 6306802014708

Option 2 ID: 6306802014707

Option 3 ID: 6306802014705

Option 4 ID: 6306802014706

Status: Not Answered

Chosen Option : --

	★ 4. Shift				
		Question ID : 630680515555 Option 1 ID : 6306802014626 Option 2 ID : 6306802014628 Option 3 ID : 6306802014627 Option 4 ID : 6306802014625 Status : Answered Chosen Option : 2			
.82 \ ns	Which of the following is NOT the necessary condition for the deadlock? ✓ 1. Preemption				
	× 2. Circular wait				
	X 3. Hold and wait ✓ 4. Hold and wait ✓ 5. Hold and wait ✓				
	X 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 : 1			
		Option 4 ID : 6306802014665 Status : Answered Chosen Option : 1			
).83 /	As per ISO 25010 quality model which of the following is describe quality in use model?	Option 4 ID : 6306802014665 Status : Answered Chosen Option : 1			
(describe quality in use model? 1. Satisfaction	Option 4 ID : 6306802014665 Status : Answered Chosen Option : 1			
(describe quality in use model? 1. Satisfaction 2. Efficiency	Option 4 ID : 6306802014665 Status : Answered Chosen Option : 1			
(describe quality in use model? 1. Satisfaction 2. Efficiency 3. Effectiveness	Option 4 ID : 6306802014665 Status : Answered Chosen Option : 1			
).83 / (Ans	describe quality in use model? 1. Satisfaction 2. Efficiency	Option 4 ID : 6306802014665 Status : Answered Chosen Option : 1			

Q.81 Which of the following is NOT the action performed by a shift – reduce parser?

- Q.84 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 of 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 X 1. Neither I nor II

2. Both I and II

X 3. Only I

💢 4. Only II

Question ID: 630680515573
Option 1 ID: 6306802014700
Option 2 ID: 6306802014699
Option 3 ID: 6306802014697
Option 4 ID: 6306802014698

Status : Answered

Chosen Option: 2

Q.85 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 X 1. 11

X 2. 12

3. 10

X 4. 13

Question ID: 630680515536 Option 1 ID: 6306802014551 Option 2 ID: 6306802014550 Option 3 ID: 6306802014552 Option 4 ID: 6306802014549 Status: Not Answered

Chosen Option: --

- Q.86 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 quires.

Ans X 1. Only II

X 2. Neither I nor II

X 4. Only I

Question ID : 630680515571

Option 1 ID: 6306802014690 Option 2 ID: 6306802014692 Option 3 ID: 6306802014691

Option 4 ID: **6306802014689** Status: **Answered**

Q.87 What is the decimal conversion of $(630.4)_8$?

Ans

X 1. 670

X 2. 650

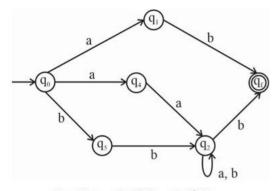
3. 408.5

X 4. 640.4

Question ID: 630680515510 Option 1 ID: 6306802014448 Option 2 ID: 6306802014447 Option 3 ID: 6306802014445 Option 4 ID: 6306802014446 Status: Not Answered

Chosen Option: --

Q.88 The given finite automata is equivalent to which of the following regular expression?



Ans

$$✓$$
 1. ab + (aa + bb) (a + b)* b

$$\times$$
 2. ab (aa + bb)(a + b)* b

$$\times$$
 3. ab (aa + b) (a + b)* a

$$\times$$
 4. $(a + b)^*$ $(aa + bb)$ $(a + b)^*$

Question ID: 630680515545 Option 1 ID: 6306802014587 Option 2 ID: 6306802014586

Option 3 ID: 6306802014588 Option 4 ID: 6306802014585

Status: Answered

Chosen Option: 1

Q.89 Name the phase of compiler, which separates characters of the source language into groups that logically belong together, these groups are called tokens.

Ans

X 1. Error handling

X 2. Code optimization

3. Lexical analysis

X 4. Syntax analysis

Question ID: 630680515551

Option 1 ID: 6306802014612

Option 2 ID: 6306802014611 Option 3 ID: 6306802014609

Option 4 ID: 6306802014610

Status: Answered

Q.90 Name the phase of the unified process model where customer communication and planning take place.

Ans

X 1. Elaboration phase

X 2. Transition phase

3. Inception phase

X 4. Construction phase

Question ID: 630680515586 Option 1 ID: 6306802014750 Option 2 ID: 6306802014752 Option 3 ID: 6306802014749 Option 4 ID: 6306802014751

Status: Answered

Chosen Option: 1

Match the following network diagram with the correct topology.

	Network diagram		Topology
I	Host Host	1	Ring network
п		2	Bus network
ш	Single communication line	3	Star network

X 2. I − 1; II − 2; III − 3

√ 3. I − 3; II − 1; III − 2

X 4. I − 3; II − 2; III − 1

Question ID: 630680515578

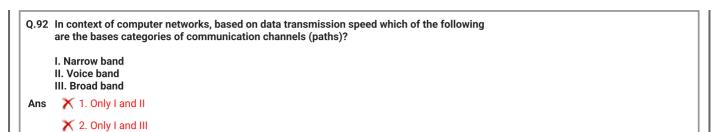
Option 1 ID: 6306802014719

Option 2 ID: 6306802014717

Option 3 ID: 6306802014718

Option 4 ID: 6306802014720

Status: Answered



✓ 3. I, II and III✓ 4. Only II and III

Question ID: 630680515577
Option 1 ID: 6306802014713
Option 2 ID: 6306802014715
Option 3 ID: 6306802014716
Option 4 ID: 6306802014714
Status: Answered

Chosen Option: 2

Q.93 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 X 1. 4245

× 2. 2324

X 3. 4242

4. 2884

Question ID: 630680515606 Option 1 ID: 6306802014830 Option 2 ID: 6306802014832 Option 3 ID: 6306802014829 Option 4 ID: 6306802014831 Status: Not Answered

Chosen Option: --

Q.94 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 X 1. Only I

X 2. Only II

3. Both I and II

X 4. Neither I nor II

Question ID: 630680515556
Option 1 ID: 6306802014629
Option 2 ID: 6306802014630
Option 3 ID: 6306802014631
Option 4 ID: 6306802014632
Status: Not Answered

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Q.95 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));
      X 1. Head
Ans
      X 2. Linear
       3. Binary
      X 4. Tail
                                                                                     Question ID: 630680515527
                                                                                     Option 1 ID: 6306802014516
                                                                                     Option 2 ID: 6306802014513
                                                                                     Option 3 ID: 6306802014514
                                                                                     Option 4 ID: 6306802014515
                                                                                         Status: Answered
                                                                                  Chosen Option: 4
Q.96 Which of the given option is CORRECT?
Ans

√ 1. (17/27) < (15/22) < (13/17)
</p>
      \times 2. (16/19) < (3/7) < (40/90)
      \times 3. (4/9) < (3/8) < (2/7)
      \times 4. (2/5) < (11/13) < (90/110)
                                                                                     Question ID: 630680515608
                                                                                     Option 1 ID: 6306802014839
                                                                                     Option 2 ID: 6306802014837
                                                                                     Option 3 ID: 6306802014840
                                                                                     Option 4 ID: 6306802014838
                                                                                         Status: Answered
                                                                                  Chosen Option: 1
Q.97 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 _
      X 1. Block Criteria
      X 2. Attribute Criteria
       3. Selection Criteria
      X 4. Relation Criteria
                                                                                     Question ID: 630680515572
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Option 1 ID : 6306802014694 Option 2 ID : 6306802014696 Option 3 ID : 6306802014693 Option 4 ID : 6306802014695 Status : Answered Chosen Option : 3

I. Cache memory II. Near-line mass storage devices X 1. Only II X 2. Neither I nor II 3. Both I and II X 4. Only I Question ID: 630680515523 Option 1 ID: 6306802014498 Option 2 ID: 6306802014500 Option 3 ID: 6306802014499 Option 4 ID: 6306802014497 Status: Answered Chosen Option: 3 Q.99 Which derivation is also known as canonical derivations? ✓ 1. Right most derivation Ans X 2. Left most derivation in reverse X 3. Right most derivations in reverse X 4. Left most derivation Question ID: 630680515554 Option 1 ID: 6306802014624 Option 2 ID: 6306802014622 Option 3 ID: 6306802014621 Option 4 ID: 6306802014623 Status: Answered Chosen Option: 4 Q.100 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. X 1. PROM Ans X 2. EPROM 3. Cache memory X 4. Flash memory Question ID: 630680515519 Option 1 ID: 6306802014483 Option 2 ID: 6306802014482 Option 3 ID: 6306802014481 Option 4 ID: 6306802014484 Status: Answered Chosen Option: 3

Q.98 Which of the following is part of the hierarchical storage system?