## Deptt. of Governance Reforms, Punjab State e-Governance Society

Post: District IT Manager (DITM) (26 -10-2024) (Morning) Question Booklet & Answer Key

Which of the following HTML code will affect the vertical alignment of the table content? 1. A) Text goes here. B) Text goes here. C) Text goes here. D) Text goes here. What is the value of variable z after executing the following C-code? 2. int x = 5; int y = 5; *int* z = 5; if (x > 3)if (y > 4)if (z > 5)z += 1;else z += 2;else z += 3;z += 4; A)9B) 5 C) 11 D) 7 Consider the following C-code: 3. #include < stdio.h > main() *float sum* = 0.0, j = 1.0, i = 2.0; *while* (i / j > 0.001) { j = j + j; sum = sum + i / j;printf ("% f" \ n", sum); } When this code is executed, which of the following integer best approximates the last number that is printed? A)3 B)2 C)1 D)0 In the context of C++, given below are three implementations I-III of the swap() function: 4. II III*void swap (int a, int b)* void swap (int &a, int &b) *void swap (int \*a, int \*b) {* int \*temp; { int temp; int temp; temp = a;temp = a;temp = a;a = b; a = b; a = b; b = temp;b = temp;b = temp;int main () { } } int main () { int main() { *int* p = 0, q = 1; *int* p = 0, q = 1; *int* p = 0, q = 1; swap (&p, &q); swap(p, q);swap(p, q);

Which of I-III would actually swap the contents of the two integer values p and q?

A)I only

B) II only

C)III only

D)II and III only

5. What term is used to describe a function that calls itself in a programming language and what is the value returned by the function call F(2)?

```
int F(int \ n) {
if (n = 4) \ return \ 2;
else \ return \ 2*F(n+1);
```

else }

A)Iterative and 2

B)Recursive and 4

C)Recursive and 8 D)Iterative and 16

6. Assuming that 'int' occupies 2-bytes (16 bits) of memory, what will be the output of the following C-program?

```
#include <stdio.h>

void main(){

    int x = 0x15213F10 >> 4;

    char y = (char) x;

    unsigned char z = (unsigned char) x;

    printf("%d,%d, %u",x, y, z);
}

A)5105, -241, 15 B)5105, -15, 241 C)5105, -241, -241 D)5105, -15, 15
```

7. Which of the following is a TRUE statement regarding a <u>constructor</u> in an object oriented programming?

A)it has no return type

B)its return type changes based on how you write it

C)its return type is *void* 

D)its return type is int

8. Consider the following C++ program:

```
int a[10] = \{1, 3, 2, 0, 5, -2, 6, 8, 7, 11\};

int sum, p; int c = 1; sum = p = a[0];

for (inti = 1; i < 10; i++){

if (a[i] > p) {

    sum += a[i]; p = a[i]; c++; } }

cout << c << ":" << sum;
```

Which of the following is the resulting output?

A)10:41

B)9:30

C)4:7

D) 6:34

- 9. When an ADT is implemented as a C++ class, which of the following should normally be TRUE?
  - A)Member functions are private, member variables are public
  - B)Member functions are public, member variables are private
  - C)Members functions as well as member variables are private
  - D)Member functions as well as member variables are public
- 10. Whether by private or public inheritance in C++, a derived class scope nests inside
  - A)The scope of its immediate base class
  - B)The Global scope
  - C)The Local scope
  - D)The scope of the abstract class with pure virtual function

11.	Which of the follow approach?	wing are <u>FACTS</u> a	bout top-down software project implementation				
	1.1	s is more time consur	ming because of the unit tests				
		a present a demo of	the project to the management faster than using a				
	III. In a top-down design, if an error is detected, then it's always because a lower-level module is not meeting its specifications (because the higher-level ones have already been tested)						
	IV.A top-down proce	ess makes it possible	to detect performance problems faster				
		ss makes it easier to f lly I, III, and IV	ix a global conceptual problem C)Only II and V D)Only I, II and IV				
12.		is used in both str s only used in object-	uctured design and object-oriented design, while oriented design.				
	A)Fast, Slow B) Da	ta, Procedural C)Pr	rocedural, Data D)Off-line, On-line				
13.	Consider a database t illegal?	able T with attribute	s X and Y. Which of the following SQL queries is				
	A)select X from T; C)select X, count(*)	The state of the s	elect X, count(*) from T; D)select X, Y, count(*) from T group by X, Y;				
14.	Read the following de	escriptions about X. Y	and Z:				
	_	-	iter system, but is disguised as something useful.				
	Usually it does not ma	-	Ç				
			s itself across computers, creating copies of itself				
	in each computer and infecting the entire network.						
	Z: It is a computer program designed to replicate itself by infecting other files or system						
	areas which need a host program to spread to another computer.  Identify X, Y, Z.						
	• • • • • • • • • • • • • • • • • • • •	Y: Worm,	Z: Trojan horse.				
	B)X: Trojan horse,		Z: Worm.				
	C)X: Worm,	Y: Trojan horse	Z: Virus.				
	D)X: Trojan horse,	Y: Worm,	Z: Virus.				
15.	Consider a database with the following relations:						
	Customer (customerName, street, age)						
	Restaurant (restaurantName, owner, street) Frequent (customerName, restaurantName)						
	Frequent (customerN	ame, restaurantNamo	2)				
	What does the follow SELECT <i>Frequent.re</i>		n?				
	FROM Customer, Frequent						
	WHERE (Customer.age<21) AND (Customer.customerName=Frequent.customerName) A)Returns the names of customers who are younger than the legal drinking age of 21.						
	B)Returns the names	of restaurants where	only those customers who are not younger than				
tł	ne legal drinking age of	21 can visit.					

C)Returns the names of restaurants with frequent customers who are younger than the legal drinking age of 21.

D)Returns the names of restaurants with frequent customers

SQL provides a mechanism for the nesting of subqueries. A subquery is a select-from-where 16. expression that is nested within another query. The EXISTS construct of SQL returns a value 'true' if the argument subquery is:

A)Empty B) Non-empty C)In error D)Unique

I. Both C1 and C2 delete the schema R II. C2 retains relation R, but delets all tuples in R III. C1 deletes not only all tuples, but also the schema for R A)I only B) I and II only C)II and III only D)I, II and III only In computer networking, from what has the term 'Wi-MAX' been derived? A)Worldwide Interconnection for Microwave Access B)Worldwide Interconnection for Microwave Access C)Worldwide Interconnection for Microwave Access D)Worldwide Interconnection for Multiple Access D)Worldwide Interconnection (BMTP) D)Hypertext Transfer Protocol (BMTP) D)Hypertext Transfer Protocol (BMTP) D)Hypertext Transfer Protocol (BMTP) D)Hypertext Transfer Protocol (BTTP)  20. In 'https', the letter 's' stands for: A)Eximal By Bose T C)Simple D)Smart  21. Which of the following statements is FALSE? A)Dividing large messages into packets thanks it easier to recover from transmission errors. B)DNS translates between numeric IP addresses and human-readable hostnames. C)IP (the Internet Protocol) numbers data packets so they can be reassembled into the correct order after they are received. D)Peer-to-peer networks are more resistant to failure than client-server networks.  22. Which of the following transmission media is used in Bluetooth Technology? A)Radio Links B)Microwave Links D)Fiber-optic  23. In computer networking, what percentage of the IPv4 IP address space do all class C addresses consume? A)25% B)12.5% C)50% D)37.5%  24. Encryption and decryption are the functions of the layer of OSI model in computer network. A)Transport B)Session C)Router D)Presentation  25. Match Column A	17.	Conside	er the following two	comm	ands C1 an	d C2	on the relation	on R fron	n an SQL database:
18. In computer networking, from what has the term 'Wi-MAX' been derived? A)Worldwide Interoperability for Microwave Access B)Worldwide Interchangeability for Microwave Access C)Worldwide Interchangeability for Microwave Access D)Worldwide Interchangeability for Microwave Access D)Worldwide Interchangeability for Microwave Access D)Worldwide Interconnection for Multiple Access  19. Delivery and storage of email messages to a server is achieved using A)Post Office Protocol (POP) B)Internet Mail Access Protocol (IMAP) C)Simple Mail Transfer Protocol (SMTP) D)Hypertext Transfer Protocol (IMTP) D)NS translates between numeric IP addresses and human-readable hostnames. C)IP (the Internet Protocol) numbers data packets so they can be reassembled into the correct order after they are received. D)Peer-to-peer networks are more resistant to failure than client-server networks.  22. Which of the following transmission media is used in Bluetooth Technology? A)Radio Links B)Microwave Links C)VSAT Communication D)Fiber-optic  23. In computer networking, what percentage of the IPv4 IP address space do all class C addresses consume? A)25% B)12.5% C)50% D)37.5%  24. Encryption and decryption are the functions of the layer of OSI model in computer network. A)Transport B)Session C)Router D)Presentation  25. Match Column A in the context of computer networking.    Column A		II. C2 r	etains relation R, b	ut dele	ts all tuples				
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	26.	bits/second medium What is	onds), over a fiber is 200,000 km/seconthe propagation de	link v onds. lay in t	vith length his link?	of 8	800 km. Assı		

- 27. The first instruction of bootstrap loader program of an operating system is stored in:
  A)RAM
  B)Hard Disk
  C)Cache Memory
  D)BIOS
- 28. This occurs if too large a portion of available CPU time is spent performing paging, leaving very little time to actually execute user programs.

A)Fragmentation

B)Thrashing

C)Corruption

D)Partitioning

29. There are 'n' processes in memory. A process spends a fraction 'p' of its time waiting for I/O to complete. The CPU utilization is given by:

A)  $p^n$ 

B)1- $p^{n}$ 

C)  $(1-p)^n$ 

D)1- $n^{p}$ 

30. The main goal while selecting a CPU scheduling algorithm is:

A)To maximize CPU utilization and to minimize turnaround time, waiting time and response time.

B)To minimize the waiting time and to maximize the throughput and response time.

C)To minimize the response time, waiting time and throughput and to maximize the turnaround time.

D)To minimize CPU utilization and to maximize turnaround time, waiting time and response time.

31. The operation of defragmenting a hard disk:

A)uses compaction to combat internal fragmentation

B)uses compaction to combat external fragmentation

C)uses compression to combat internal fragmentation

D)uses compression to combat external fragmentation

32. When you sign up for something like a free e-mail account, you may be presented with a CAPTCHA. The most common form of CAPTCHA is an image of several distorted letters. CAPTCHA stands for:

A)"Coverage Analysis and Planning Tool for Computers and Humans Apart."

- B)"Completely Automated Public Turing test to tell Computers and Humans Apart."
- C)"Completely Applied Parallel Technologies for Communication and Hardware Apart."
- D)"Comparable Additional Protected Turing test to tell Computers and Humans Apart."
- 33. What ASP.NET object encapsulates the state of the client and the browser?

A)The Session object

B)The Application object

C)The Response object

D)The Request object

34. To calculate gross pay, hours are multiplied by the hourly rate. What MS.EXCEL formula would you put in cell C4 and then you are able to copy that cell down to the rest of the column C?

	Α	В	С
1	Hourly Rate (in Rs)	12.75	
2			
3	Name	Hours	Gross Pay
4	Arjun	26	
5	Rishi	37	
6	Ishan	36	
7	Ajay	28	
8	Arun	30	
9	Nitin	30	

A)=B1\*\$B\$4

B)=\$B1\*B4

C)=B1\*B4

D)=\$B\$1\*B4

Consider the MS-EXCEL spreadsheet given below: 35. B C A Number of Days 1 Project 2 15 A 3 20 A 4 30 B 5 A 10 6 B 10 5 A What is the output of the following formula in cell C1? =SUMIF(A2:A7,"A", B2:B7) A) 90 B)80 C)50D)20 36. Given below are two statements: in the context of MS-WORD software Statement I: The tool which is used to insert decorative text in a document is called Clipart. Statement II: The purpose of using Keyboard shortcut CTRL+X followed by CTRL+V for a selected text paragraph in a document is to Cut and Paste. In the light of the above statements, choose the correct answer from the options given below: A)Both Statements I and Statement II are true B)Both Statements I and Statement II are false C)Statement I is true but Statement II is false D)Statement I is false but Statement II is true With regard to a word processing software, the process of combining static 37. information in a publication together with variable information in a data source to create one merged publication is called B)Data sourcing A)Electronic mail C)Mail merge D)Spam mail In the Microsoft PowerPoint software, there are two types of slide orientation that are 38. supported. What are these orientation types? A)Portrait and Landscape B)Upright and Landscape C)Portrait and Facedown D)Landscape and Facedown 39. Which of the following views is the best view to use when setting transition effects for all slides in a MS-PowerPoint presentation? A)Slide sorter view B)Notes pages view C)Slide view D)Outline view 40. Which of the following statements is/ are true? P: Google Drive is an example of Cloud storage and an example of a private cloud. Q: Google Docs is an example of cloud computing. A)P only C)Both P and Q B)Q only D)Neither P nor Q

A) Planet vs. PlasticsC) Give a breath to a Mother Earth

Theme of World Earth Day 2024:

41.

42.

43.

Flippant A) Crazy

Sporadic A) Occasion

B) Restore our EarthD) Invest in our Planet

D) Casual

D) Overt

C) Respectful

C) Occult

Choose the correct synonym of the following word out of the four given options:

Mark the correct opposite of the given word out of the given options:

B) Proud

B) Occasional

		est of point V. Point direction with respec	-	point J. Point J is at how much
	A) 10m Southeast	B) 5m South	C) 5m East	D) 10m Northwest
46.		again Mohan's age ha		d the following year it would be cube of some number, then for D) 64 years
47.	numbered I, II and II to be at variance fro	I. You have to take to m commonly known conclusions logically ets.  b. cows.	the given statement facts. Read all the	ollowed by three conclusions ts to be true even if they seem e conclusions and then decide given statements, disregarding  III. Some gardens are doors
	A) Only I follows C) Only I and II follo		B) Only II follow D) None of the a	vs
48.	The smaller cubes so		parated. How ma	54 smaller cubes of equal size. any smaller cubes will have D) 24
49.	a total of 500 student	rs. Study the diagram of Physics		t distinction in three subjects in r the question:
	What is the percentag	e of students who got	distinction in at lea	st one subject ?
	A) 27.8%	B) 89.8 %	C) 38%	D) None of these
50.	There is a group of fa physicist, one is a junction.  — A, C and advocate coffee to tea. The independent of the coffee to tea.	ive persons — A, B, G journalist, one is an it e prefer tea to coffee dustrialist and D and The horticulturist is	C, D and E. One of ndustrialist and one and two of them - A are friends to C's brother.	questions given below: them is a horticulturist, one is e is an advocate. Three of them — B and the journalist – prefer one another but two of them a but is not an advocate?  D) None of these

Which player was named 'Most Valuable Player' in the recently held IPL-2024:

Point R is 5m west of point Q. Point P is 16m north of point Q. Point R is 25m south of point

B) SunilNarine

C) Mitchell Starc

D) Shreyas Iyer

44.

45.

A) Virat Kohli

Deptt. of Governance Reforms, Punjab State e-Governance Society Post: DISTT. IT Manager (26-10-2024) (Morning)

ANSWER KEY (A-Series)

Q.No.	Ans	Q.No.	Ans
1	A	26	D
2	С	27	D
3	В	28	В
4	В	29	В
5	C	30	A
6	В	31	В
7	A	32	В
8	D	33	A
9	В	34	D
10	A	35	C
11	C	36	D
12	C	37	C
13	В	38	A
14	D	39	A
15	C	40	В
16	В	41	C
17	C	42	В
18	A	43	A
19	C	44	В
20	В	45	C
21	C	46	В
22	A	47	D
23	В	48	C
24	D	49	C
25	A	50	D