

**Deptt. of Governance Reforms,
Punjab State
e-Governance Society
Post: Manager (Tech.)
(26 -10-2024) (Morning)
Question Booklet & Answer Key**

1. Which of the following features are available in word processing software such as MS-WORD?
 - I. Find and Replace
 - II. Mail Merge
 - III. Spell check and Thesaurus
 - IV. Automatic recalculation

Choose the correct answer from the options given below:

- | | |
|-----------------------|----------------------|
| A) I, II and III only | B) II and III only |
| C) III and IV only | D) I, II and IV only |

2. Consider the following MS-EXCEL screenshot that shows the product code, name of the state which produced the product and Quality of the product:

	A	B	C	D
1	Product Code	State	Quality	
2	A1	HP	A	
3	A2	MP	A	
4	A3	UP	A	
5	A4	UP	B	
6	A5	UP	B	
7				

Which of the following EXCEL formulae can be typed in Cell D1 to answer the question: How many different product codes from UP are of Grade "A" quality?

- I. COUNTIFS(B2:B6, "=UP", C2:C6, "=A")
- II. COUNTIFS(C2:C6, "=A", B2:B6, "=UP")
- III. COUNTIFS(B2:B6, "UP", C2:C6, "A")

Choose the correct answer from the options given below:

- | | |
|--------------------|-------------------|
| A) I and II only | B) I and III only |
| C) II and III only | D) I, II and III |

3. In the context of MS-PowerPoint presentation software, which of the following statements are true?

- I. Objects on the slide that hold text, pictures and more are called Placeholders.
- II. MS-PowerPoint automatically opens with Windows Operating System
- III. A view that displays the slides of a presentation as miniature representations of the slides is called Slide Sorter view.

Choose the correct answer from the options given below:

- | | |
|--------------------|-------------------|
| A) I and II Only | B) I and III Only |
| C) II and III Only | D) I, II and III |

4. In the context of MS-WORD, word processing software, which of the following statements are true?

- I. Different header and footer for the last page of a section can be set.
- II. The ability to combine name and addresses with a standard document and to send the same letter to different persons is called Mail Merge.
- III. Gutter Margins is the margin that is added to the binding side of a page when printing.

Choose the correct answer from the options given below:

- | | |
|--------------------|-------------------|
| A) I and II only | B) I and III only |
| C) II and III only | D) I, II and III |

5. Match List-1 with List-2.

	List-1 (Type of Malware)		List-2 (Description)
(a)	Trojan Horse	(i)	A program that replicates itself in order to spread to other computers and uses a computer network to spread itself.
(b)	Worm	(ii)	A non-self-replicating program containing malicious code that, when executed carries out actions, typically causing loss of data.
(c)	Spyware	(iii)	A type of malware which restricts access to computer system that it infects, often demand a fee.
(d)	Ransomware	(iv)	A program that aids in gathering information about a person or organization without their knowledge. For example, it detects the key presses of the computer user.

- A) (a)-(i); (b)-(ii); (c)-(iv); (d)-(iii) B) (a)-(ii); (b)-(i); (c)-(iv); (d)-(iii)
 C) (a)-(iii); (b)-(i); (c)-(iv); (d)-(ii) D) (a)-(ii); (b)-(iv); (c)-(i); (d)-(iii)

6. Which of the following pair of acronyms and their expansion are incorrectly matched?

- A) LAN – Local Area Network B) MAN – Metropolitan Area Network
 C) WAN – Wide Area Network D) VPN – Virtual Personal Network

7. Given below are two statements:

Statement I. Disk defragmentation makes files that are contiguous in a disk as fragmented.

Statement II. A device controller that controls a device will deal with the operating system through device driver.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A) Both Statement I and Statement II are true.
 B) Both Statement 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.

8. Which of the following statements regarding guided and unguided media in computer networking are correct?

I. Guided media transmission supports higher data speeds than unguided media transmission.

II. Guided media is subject to less interference than unguided media.

III. Unguided media transmission is more secure than guided media transmission.

Choose the correct answer from the options given below:

- A) I and II only B) I and III only C) II and III only D) I, II and III

9. Given below are two statements:

Statement I. Denial-of-Service attack is the large network of requests sent at the same time to the web server thereby causing the server to crash.

Statement II. Virus is a self-replicating malicious software causing computer to run slowly.

In the light of the above statements, choose the most appropriate answer from the options given below:

- A) Both Statement I and Statement II are true.
 B) Both Statement 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.

10. Which of the following statements are true?

I. Hypertext links in the WWW are designed to be unidirectional, which means that the destination of a link may be moved or deleted without the source being notified, resulting in broken links.

II. The Google search engine algorithm is secret, so the general public does not know how the results of a search are being ranked when presented to a user.

III. Web search engine collect personal data and use to target users with customized advertising.

Choose the correct answer from the options given below:

- A) I and II only B) I and III only C) II and III only D) I, II and III

11. Given below are two statements with reference to Web 3.0:

Statement I: Web 3.0 is an interactive web and its greatest virtue is the democratization of content production.

Statement II: Apple's Siri, which can summarize large amount of information into knowledge and useful actions for people, is an example of Web 3.0 application.

In light of the above statements, choose the correct answer from the options given below:

- A) Both Statement I and Statement II are true.
B) Both Statement 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.

12. Consider the following code segment:

```
if (Y < 0)
{
    X = -X;
    Y = -Y;
}
Z = 0;
While (Y > 0)
{
    Z = Z + X;
    Y = Y - 1;
}
```

Assume that X, Y, and Z are integer variables, and that X and Y have been initialized. Which of the following best describes what this code segment does?

- A) Sets Z to be the sum X + Y B) Sets Z to be the absolute value of X
C) Sets Z to be the value of Y D) Sets Z to be the product X * Y

13. The major goal of object-oriented programming is

- A) Speed B) User-interfaces C) Reuse D) Top-down program development

14. Which of the following is a TRUE statement regarding a constructor in an object oriented programming (C++)?

- 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

15. Consider the following C-function:

```
void f(unsigned int n)
{ do {
    putchar('0' + (n % 10));
  } while (n /= 10);
  putchar('\n');
}
```

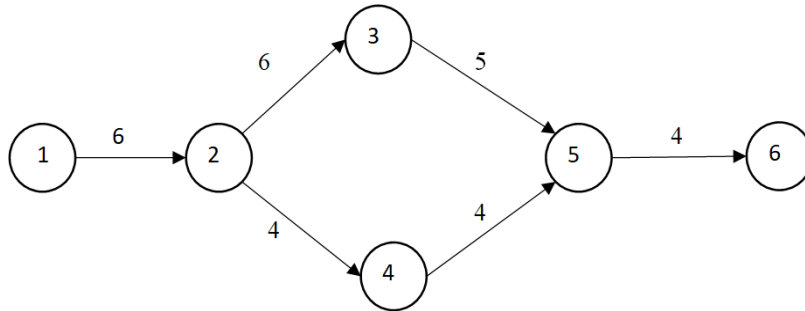
What is the output of f(837)?

- A) 387 B) 738 C) 800 D) 700
16. Using the HDD as an extension of RAM is a feature of
A) Virtual memory B) Cache
C) Direct Memory Access (DMA) D) Virtual Reality
17. 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
18. What does the following UNIX command do?
cat file1 | grep unix | wc -l
A) displays the contents of file1 and displays the number of lines in it
B) concatenates two files file1 & unix, and displays the total lines
C) counts how many times the keyword unix occurs in file1
D) counts how many lines in file1 contain the keyword unix
19. Which of the following statements concerning HTML and XHTML is FALSE?
A) HTML and XHTML are considered server-side programs.
B) HTML and XHTML are sets of rules for marking up blocks of text for display by a Web browser.
C) XHTML is the successor to HTML.
D) HTML and XHTML documents are merely text documents with tags applied to them.
20. The employee information in a company is stored in the relation *Employee (name, sex, salary, deptName)*
Consider the following SQL query:
select deptName from Employee where sex = 'M' group by deptName
having avg(salary) > (select avg (salary) from Employee)
It returns the names of the department in which
A) The average salary is more than the average salary in the company
B) The average salary of male employees is more than the average salary of all male employees in the company
C) The average salary of male employees is more than the average salary of employees in the same department.
D) The average salary of male employees is more than the average salary of employees in the company
21. In the context of Operating Systems, a process may create a new process by executing _____ system call.
A) init B) fork C) create D) new
22. If a table, sales, has a column filled with all the names of the Indian states and you want to find all states that have an "I" somewhere in its name, you can do that via this SQL command:
A) Select * from sales where state like '%I%';
B) Select * from sales where state = '%I%';
C) Select * from sales where state like '\$I\$%';
D) Select * from sales where state = '\$I\$';

23. An iterative process through which requirements are translated into blue print for developing the software is:
A) Requirements analysis
B) Software design
C) Software coding
D) Software requirement specification
24. An information system that supports the planning and assessment needs of executive management is:
A) DSS
B) ERP
C) MIS
D) EIS
25. A Web crawler:
A) is the process of improving the visibility of a website or a web page in search engines via "natural" or unpaid ("organic" or "algorithmic") search results.
B) is a computer program that browses the World Wide Web in a methodical, automated manner or in an orderly fashion.
C) refers to the placement of media along many different stages of the customer engagement cycle through search engine marketing (SEM), search engine optimization (SEO), banner ads on specific websites, email marketing, and Web 2.0 strategies.
D) is an Internet advertising model used to direct traffic to websites, where advertisers pay a hosting service when an ad is clicked.
26. In the PMBOK Guide 6th Edition, what two elements compose the project environment?
A) Enterprise environmental factors and organizational process assets
B) Internal and External Environment
C) Inside and outside stakeholders
D) Competitors and customers
27. You observe that team members have differing views on the project's work and deliverables, as well as the overall complexity, at the start of the project's execution. Now, what should you do?
A) Give your team members some time to develop a common understanding of the project scope and product scope. Upcoming interface problems may be resolved later.
B) Use the risk management processes to identify and assess risks caused by misunderstandings and develop a plan with measures in order to respond to them.
C) Organize meetings to identify and resolve misunderstandings between team members in order to avoid interface problems, disintegration and costly rework early in the project
D) Use interviews in private with each individual team member to inform them of your expectations and your requirements in an atmosphere of confidence.
28. You should focus on honing your ___ talents if you want to make sure your project is successful.
A) Leadership skills
B) Speaking skills
C) Motivational skills
D) Negotiation skills
29. In project management, which of these is not a knowledge area?
A) Risk Management
B) Procurement Management
C) Initiating Management
D) Integration Management
30. _____ is the term has come to mean any change in the project that was not in the original plan.
A) Hope Creep
B) Feature Creep
C) Scope Creep
D) Effort Creep

31. As a project manager, you observed that disagreements occur within the team on both a technical and interpersonal level when the project is being carried out. What is the proper approach to conflict resolution?
- A) Conflicts distract the team and disrupt the work rhythm. You should always smooth them when they surface.
 - B) A conflict should be handled in a meeting so that the entire team can participate in finding a solution.
 - C) Conflicts should be addressed early and usually in private, using a direct, collaborative approach.
 - D) You should use your coercive power to quickly resolve conflicts and then focus on goal achievement.
32. You wish to evaluate high-level risks as the project manager for a software project that is presently underway. What ought one to do?
- A) Develop the project charter and a risk management plan to start identifying risks based on those and other documents.
 - B) Identify and analyze risk events using qualitative and quantitative techniques.
 - C) Develop contingency plans and fallback plans in case the original plan proves wrong.
 - D) Discuss the risks documented in your Risk register with the project key stakeholders
33. If users are not involved, which two of the following models will not be able to produce the intended result?
- A) Waterfall & Spiral B) RAD & Spiral C) RAD & Waterfall D) RAD & Prototyping
34. A significant stakeholder has just begun utilizing the product, the Product Owner informs the Scrum Master several sprints into the project. The shareholder is not happy with the product's quality. Which two choices are best for the Scrum Master? (Choose best two answers.) Options:
- (i) Wait to bring this up until the Sprint Retrospective.
 - (ii) Encourage the Product Owner to put quality specifications on the Product Backlog and express the stakeholder's concern to the Developers.
 - (iii) Bring the concern to the testers to improve how the Product is verified.
 - (iv) Explain to the Product Owner that it is up to the Developers to decide on acceptable quality standards.
 - (v) Coach the Product Owner on how to talk with the Developers about this concern.
- A) i,ii B) ii, iii C) iii, i D) iv, v
35. The optimistic, pessimistic and the most likely times of activity are 4, 8 and 6 weeks respectively. Find the standard deviation of the activity according to the β – distribution of PERT?
- A) 4/9 B) 4/6 C) 2/3 D) 8/3
36. One of the Scrum events is the Daily Scrum. Which two goals does the Daily Scrum aim to achieve?
- (i) A shared understanding of the most important work to be undertaken next to achieve the best possible progress toward the Sprint goal.
 - (ii) An update of completed tasks and of the remaining work so the Scrum Master can plan the next day.
 - (iii) A status report for the upper management indicating what each individual has done, will be doing, and what is impending him/her.
 - (iv) An updated Scrum board to make Sprint progress transparent for the stakeholders.
 - (v) New impediments for the Scrum Master to take care of.
- A) i, v, B) i, ii C) iv, v D) iii, i

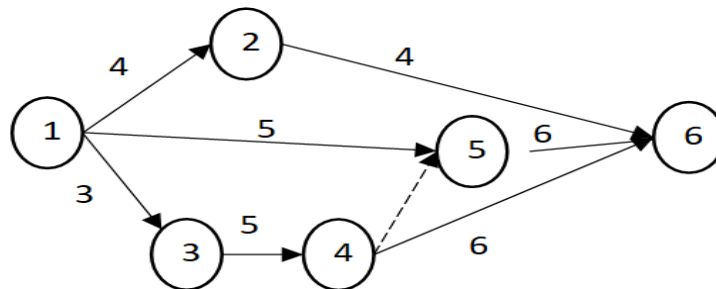
37. According to mathematics, the degree to which perceived performance surpasses expectations determines customer happiness. A customer satisfaction ratio of .95 indicates that a customer is
- A) Very satisfied
B) Slightly satisfied
C) Neutral. Expectations were met
D) Slightly dissatisfied
38. Find the cost slope of activity when its crash cost and normal cost are Rs. 2800 and Rs. 2000 respectively. The normal time and the crash time are 8 days and 5 days respectively.
- A) 267
B) 276
C) 206
D) 216
39. Consider the network diagram shown below and identify the critical activities. Duration of each activity is represented on the respective arrow.



- i. Activity 1-2
ii. Activity 2-3
iii. Activity 3-5
iv. Activity 4-5
v. Activity 5-6
vi. Activity 2-4
- A) iv, i, ii, iii
B) ii, i, iii, v
C) vi, i, iv, v
D) ii, iii, iv, vi

40. How many critical paths are there in the below-shown arrow diagram?

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



41. Mark the correct synonym of the given word out of four options:

Lassitude

- A) enemy
B) weariness
C) courage
D) restlessness

42. Out of the four given options, choose the correct expression that explains the meaning of the following idioms:

To bring down the house

- A) to dismantle a building
B) to reconstruct a building
C) to ruin somebody's life
D) to draw applause

43. What was the theme of International Yoga Day 2024:

- A) Yoga for self and society
B) Yoga with Humanity
C) Yoga for Vasudhaiva Kutumbakam
D) Yoga for Healthy Living

44. According to Global Hunger index 2024, India's rank out of 127 countries is:

- A) 103
B) 105
C) 108
D) 111

45. Three statements are given in the following question, followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

Statements:

Some eye drops are ear drops

All eye drops are liquids

Some liquids are drinkable

Conclusions:

I. Some eye drops are drinkable

II. Some ear drops are drinkable

III. All liquids are eye drops

A) Only I and II follow

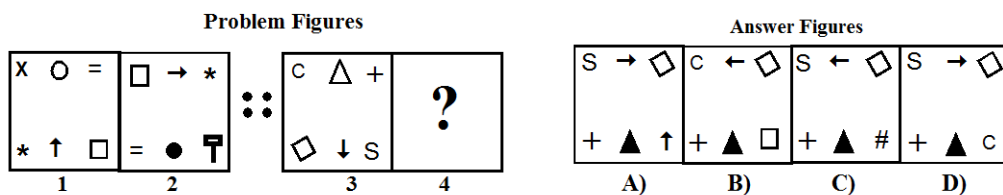
B) Only II and III follow

C) All follows

D) None follow

46. A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses' back while the remaining ones are walking along leading their horses. If the number of legs walking on the ground is 70, how many horses are there:
 A) 10 B) 12 C) 14 D) 16

47. The second figure in the first part of the problem figures bears certain relationship to the first figure. Similarly, one of the figures of answer figures bears the same relationship to the first figure of the second part of problem figure. You have to select a figure from the set of answer figures which would replace the questions mark (?)



48. One of the terms in the number series is wrong. Find out the wrong term:
93, 309, 434, 498, 521, 533
 A) 309 B) 434 C) 498 D) 521
49. In a cricket match, five batsman A, B, C, D and E scored an average of 36 runs. D scored 5 more than E; E scored 8 fewer than A; B scored as many as D and E combined; and B and C scored 107 between them. How many runs did E score?
 A) 62 B) 45 C) 28 D) 20

50. **Study the following information carefully and answer the questions given below:**
 Eight persons A, B, C, D, E, F, G and H are sitting around a rectangular table in such a way that four persons sit on each of the four corners of the table and other four persons sit on the middle of each side. The one who sits at the corner of table faces outside the centre of table and the one who sits at the middle side of table faces towards the centre of table. Persons sitting on opposite sides are exactly opposite to each other. F sits at one of the middle side of the table. Two persons sit between F and E. Only one person sits between F and C. E does not sit near to C. Either A sits 2nd to the left of H or 2nd right of H. One person sits between A and C. B and G sit opposite to each other. D sits 2nd to the left of B. G doesn't sit next to F.
 What is the position of F with respect to G?
 A) 3rd to the right B) 2nd to the right C) 2nd to the left D) 3rd to the left

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ANSWER KEY (A-Series)

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