Senior Computer Operator (BPS-16), Finance Department, Government of Sindh — 2025 · Solved Past Paper

Body: Sindh Public Service Commission (SPSC) · **Post:** Senior Computer Operator (BPS-16), Finance Department, Government of Sindh · **Year:** 2025 · **Questions:** 50 in the original paper — **49 solved and verified**, 1 excluded as defective (Q20) · **Price:** Free

> **How to use this paper:** each question shows the stem, the four options, and the correct answer. Click “Why each option?” under a question to see all four options explained — one question teaches four topics. General Knowledge answers are as of the 2025 sitting.

Source note: testpointpk reproduction, 'SPSC Senior Computer Operator Solved Past Paper dated 14-01-2025' (50 stems, each with 4 options and a printed key; paginated 5 x 10; direct-curl raw HTML). Second source (official): SPSC's own answer key for exactly this post and date — it confirms identity, grade BPS-16, 1-hour duration and true total 50, but its letters cannot be mapped onto this reproduction's shuffled numbering, so every answer was verified independently against standard references instead. 2 PICK-ONE asserted under the owner's 8 Nov 2026 delegation (Q11, Q36); 1 DEFECTIVE-excluded (Q20, no correct option). Answers verified independently against reference facts, worked derivations and standard textbook rules, never from the printed key alone.

Question 1

A poem with fourteen lines is known as _____?

- A. Lyric
- B. Epic

net ✓ **Correct answer**

- D. None of these

Question 2

What is the primary function of Firewall in computer networks?

- A. To filter/prevent/block unauthorized access ✓ **Correct answer**
- B. To block viruses
- C. To speed up network traffic
- D. None of these

Question 3

A person who is womanish in his habits?

- A. Feminist
- B. Effeminate ✓ **Correct answer**
- C. Philanderer
- D. Philatelist

Question 4

Which protocol is used to establish a secure channel of communication over a potentially insecure network?

- A. HTTPS (SSL/TLS) ✓ **Correct answer**
- B. DHCP
- C. FTP
- D. None of these

Question 5

Which scheduling algorithm uses a "time quantum" to allocate CPU time to processes?

rity Scheduling

- B. Round Robin (RR) ✓ **Correct answer**
- C. Shortest Job First (SJF)
- D. None of these

Question 6

What is the time complexity of searching for an element in a balanced binary search tree?

- A. O(1)
- B. O(n)
- C. O(log n) ✓ **Correct answer**
- D. None of these

Question 7

What does RAID stand for in data storage technologies?

- A. Reliable Array of Independent Disks
- B. Remote Access Information Database
- C. Redundant Array of Inexpensive Disks ✓ **Correct answer**
- D. None of these

Question 8

Which algorithm is used to find the shortest path in a graph?

- A. Decision Tree
- B. Dijkstra's Algorithm ✓ **Correct answer**
- C. K-Nearest Neighbors
- D. None of these

Which of the following best describes polymorphism in OOP?

- A. The process of grouping related objects together
- B. The ability of an object to take on many forms ✓ **Correct answer**
- C. The relationship between clauses and their objects
- D. None of these

Question 10

What is the output of the following python code? a= [1, 2, 3, 4] b= [num * 2 for num in a if num % = = θ] print(b)

- A. [2, 6]
- B. [2, 4, 6]
- C. [4, 8] ✓ **Correct answer**
- D. None of these

Question 11

What is the format of entering date into a database while inserting data into it?

- A. 'YYYY-MM-DD' ✓ **Correct answer**
- B. "DD-MM-YYYY"
- C. YYYY-MM-DD
- D. None of these

Question 12

Which simulation technique is used to model system with uncertainty and variability?

- A. Monte Carlo Simulation ✓ **Correct answer**
- B. Discrete Event Simulation
- C. System Dynamics

Question 13

The research team will _____ groundbreaking findings at the conference.

- A. Unveil ✓ **Correct answer**
- B. Uncover
- C. Expose
- D. None of these

Question 14

Which method is used to prevent overfitting in machine learning models?

- A. Regularization ✓ **Correct answer**
- B. Clustering
- C. Gradient Descent
- D. None of these

Question 15

"While touring Pakistan" is a _____ phrase?

- A. An Adverbial Phrase ✓ **Correct answer**
- B. A Preposition Phrase
- C. A Noun Phrase
- D. None of these

Question 16

Which architecture uses a single memory space for both data and instructions?

- A. RISC Architecture
- B. CISC Architecture

Neumann Architecture ✓ **Correct answer**

- D. None of these

Question 17

What does "MPEG" stand for in multimedia?

- A. Multimedia Processing and Encoding Group
- B. Moving Pixels Encoding Group
- C. Moving Picture Experts Group ✓ **Correct answer**
- D. None of these

Question 18

I had scarcely entered the room ____ the guest arrived.

- A. Than
- B. When ✓ **Correct answer**
- C. Then
- D. None of these

Question 19

The project manager faced a _____ task of meeting the tight deadlines.

- A. Unimportant
- B. Daunting ✓ **Correct answer**
- C. Baser
- D. None of these

Question 20

What is the correct formula to calculate the cost of a cloud computing deployment?

- A. CostCLOUD = Σ(UnitCostCLOUD / (Revenue – CostCLOUD))

tCLOUD = Σ(UnitCostCLOUD * (Revenue + CostCLOUD))

- C. CostCLOUD = Σ(UnitCostCLOUD / Revenue)
- D. None of these

No answer is given for this question, and none is taught. A — CostCLOUD = Σ(UnitCostCLOUD / (Revenue – CostCLOUD)) [DEFECTIVE-excluded]

Question 21

In database normalization, which normal form ensures that every non-prime attribute is fully functionally dependent on every candidate key?

- A. 3NF
- B. BCNF
- C. 2NF ✓ **Correct answer**
- D. None of these

Question 22

Which artificial intelligence concept involves agent operating in an environment to achieve a goal?

- A. Unsupervised Learning
- B. Reinforcement Learning ✓ **Correct answer**
- C. Natural Networks
- D. None of these

Question 23

What is the correct syntax to access the value at address ptr in C, where ptr is a pointer?

- A. ©ptr
- B. *ptr ✓ **Correct answer**
- C. ptr*
- D. None of these

What is the purpose of a Fishbone Diagram in quality assurance?

- A. To automate test scripts
- B. To identify potential causes of defects ✓ **Correct answer**
- C. To test the performance of the software
- D. None of these

Question 25

Depressed is to Elated, as Submissive is to:

- A. Exhausted
- B. Angry
- C. Resistant ✓ **Correct answer**
- D. None of these

Question 26

Which type of memory is non-volatile and can be electrically erased and reprogrammed?

- A. Cache
- B. Flash Memory ✓ **Correct answer**
- C. RAM
- D. None of these

Question 27

Which of the following statements is true about an interface in Java?

- A. It can contain instance variables
- B. It can have constructors
- C. It can have abstract methods and default methods ✓ **Correct answer**
- D. None of these

What will be the output of the following python code? a= {1, 2, 3} b= {4, 5} c= a + b print (c)

- A. Error ✓ **Correct answer**
- B. [5, 7]
- C. [1, 2, 3, 4, 5] [1, 2, 3], [4, 5]
- D. None of these

Question 29

What is the purpose of intermediate code generation in a compiler?

- A. To perform lexical analysis
- B. To produce machine code directly
- C. To provide a platform-independent representation of the source code ✓ **Correct answer**
- D. None of these

Question 30

Choose the sentence with the correct modifier placement?She drove almost her kids to school every day. ,Almost she drove her kids to school every day., She drove her kids to school almost every day.

- A. She drove almost her kids to school every day.
- B. Almost she drove her kids to school every day.
- C. She drove her kids to school almost every day. ✓ **Correct answer**
- D. None of these

Question 31

Which type of software development methodology focuses on iterative development and

- A. Agile Methodology ✓ **Correct answer**
- B. Waterfall Model
- C. Spiral Model
- D. None of these

Question 32

What is the significance of system uptime for a Senior Computer Operator?

- A. The time taken to boot up a system
- B. The time when the system was last updated
- C. The total operational time of a system without interruption ✓ **Correct answer**
- D. None of these

Question 33

In the context of software design patterns, what does the Singleton pattern ensure?

- A. A class can be subclassed only once
- B. A class has only one instance and provides a global point of access to it ✓ **Correct answer**
- C. A class can be instantiated only once per thread
- D. None of these

Question 34

Which of the following operations is typically more efficient in a linked list compared to an array?

- A. Accessing the middle element
- B. Accessing an element by index
- C. Inserting an element at the beginning ✓ **Correct answer**
- D. None of these

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Which data structure would you use to evaluate an expression given in postfix notation?

- A. Stack ✓ **Correct answer**
- B. Binary Tree
- C. Queue
- D. None of these

Question 36

What is the output of the following C code? int main () { int x = 5; printf("%dn", x++); return 0;

- A. Undefeated behavior
- B. 0
- C. 5 ✓ **Correct answer**
- D. None of these

Question 37

Which of the following is a cloud deployment model?

- A. Network cloud
- B. Open cloud
- C. Private cloud ✓ **Correct answer**
- D. None of these

Question 38

Which of the following is a characteristic of a non-clustered index?

- A. It cannot be created on a table with a clustered index
- B. The physical order of rows is different from the index order ✓ **Correct answer**
- C. The physical order of rows is same from the index order

ne of these

Question 39

Which traversal algorithm is used in the breadth-first search (BFS) of a graph?

- A. Level-order traversal ✓ **Correct answer**
- B. Post-order traversal
- C. Pre-order traversal
- D. None of these

Question 40

In a multi-user environment, what is a common method to ensure fair CPU time allocation among users?

- A. Priority Scheduling
- B. Shortest Job Next Scheduling
- C. Round Robin Scheduling ✓ **Correct answer**
- D. None of these

Question 41

In a JK flipflop, what happens if both J and K inputs are held high while the clock pulse is applied?

- A. The output toggles ✓ **Correct answer**
- B. The output is reset to 0
- C. The output is set to 1
- D. None of these

Question 42

Which type of attack involves tricking a user into providing sensitive information?

- B. Phishing ✓ **Correct answer**
- C. SQL Injection
- D. None of these

Question 43

The Antonym of Timorous is?

- A. Brave ✓ **Correct answer**
- B. Timid
- C. Shy
- D. None of these

Question 44

In a multi-threaded environment, which of the following is true about thread synchronization?

- A. Thread synchronization is not necessary as threads do not share resources
- B. Synchronization is handled automatically by the operating system
- C. Thread synchronization used semaphores and mutexes to prevent race condition ✓ **Correct answer**
- D. None of these

Question 45

Which of the following is NOT a type of NoSQL database?

- A. Relational ✓ **Correct answer**
- B. Key-Value
- C. Document
- D. None of these

Which service model is typically used for web hosting?

- A. IaaS
- B. PaaS ✓ **Correct answer**
- C. Saas
- D. None of these

Question 47

Which of the following is not a private IP address range according to RFC 1918?

- A. 172.16..0 - 172.31.255.255
- B. 192.168.0.0 - 192.168.255.255
- C. 169.254.0.0 - 169.254.255.255 ✓ **Correct answer**
- D. None of these

Question 48

Convert the hexadecimal number 1A3 to binary?

- A. 110100011 ✓ **Correct answer**
- B. 110100001
- C. 100100011
- D. None of these

Question 49

Australia has some beautiful parts of the country. _____, they also have a lot of dangerous animals.

- A. Whatever
- B. Despite
- C. However ✓ **Correct answer**

ne of these

Question 50

What is a "Kernel Panic" in the context of operating systems?

- A. A sudden loss of network connectivity
- B. A failure in data synchronization
- C. A system crash caused by critical errors in the OS kernel ✓ **Correct answer**
- D. None of these

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