

लोक सेवा आयोग
सिडिएस एण्ड क्लियरिङ्ग लिमिटेड, प्राविधिक, छैटौं, आई.टी. अधिकृत पदको आन्तरिक तथा खुला
प्रतियोगितात्मक लिखित परीक्षा
२०८२।१२।२३

KEY [D]

पत्र : प्रथम
समय : ४५ मिनेट

पूर्णाङ्क : १००

विषय : Information Technology, Capital Market and Related Legislations

उत्तरपुस्तिकामा प्रश्नपत्रको KEY अनिवार्य रूपले उल्लेख गर्नुपर्नेछ । उल्लेख नगरेमा उत्तरपुस्तिका रद्द हुनेछ । परीक्षामा calculator, mobile प्रयोग गर्न पाइनेछैन ।

50x2=100 Marks

Multiple Choice

- Which of the following data storage technologies offers the best performance?
A) SAN ✓ B) NAS C) DAS D) LAN
- Which plan typically focuses on restoring systems after disasters occur?
A) Incident Response Plan B) Disaster Recovery Plan
C) Business Continuity Plan ✓ D) Disaster Management Plan
- Which of the following commands verifies if a remote port is open?
A) Telnet ✓ B) Ping C) Tracert D) Arp
- Which sequence best reflects the flow of IPO application under C-ASBA?
A) Investor → SEBON → Bank → Issuer B) Investor → Bank → Issuer → Allotment
C) Investor → NEPSE → Issuer → Bank ✓ D) Investor → Broker → CDSC → Issuer
- Float index relates to
A) shares to public ✓ B) shares C) debentures D) shares to promoters
- Which institution can not be ASBA member as per existing regulatory directives issued by SEBON?
A) Finance Company B) Commercial Bank C) Co-operative ✓ D) Development Bank
- CDS and Clearing Limited has been established to perform which of the following?
A) Settlement guarantee
B) Central depository
C) Central depository and online trading of stocks
D) Centralized depository and clearing and settlement ✓
- Which of the following is not the function of SEBON?
A) Formulation of regulations for the capital markets
B) Supervision of the capital markets
C) Operate the stock market trading in the stock exchange ✓
D) Advice Government of Nepal for the development of the capital markets
- Which of the following is the front running?
A) Recommend investments that are appropriate for their client's risk tolerance and financial goals
B) Sell the most expensive investments to their clients
C) Avoid recommending complex investment products
D) Prioritize their own interest over their clients' interests

A-10
B-8
C-11
D-10
391

10. Regarding the Efficient Market Hypothesis (EMH), which of the following statements is most accurate?

- A) The EMH suggests that stock prices reflect all available information, making it impossible for investors to consistently outperform the market
- B) The EMH implies that technical analysis is a reliable method for predicting future stock prices
- C) The EMH states that fundamental analysis is the only effective way to identify undervalued stocks
- D) The EMH assumes that different investors have access to the different information and act rationally

11. Which of the following is prohibited under Securities Act, 2063?

- A) Insider trading ✓
- B) Open bidding
- C) Price competition
- D) Consumer protection

12. A "Preliminary Prospectus" is known as a

- A) Golden Parachute
- B) Red Herring
- C) Blue Sky
- D) Green Shoe

13. Which entity can not own shares of CDSC?

- A) Bank
- B) Non-bank financial institution
- C) Private company
- D) Institutional investor

14. Which generation of computer introduced the use of integrated circuits (ICs)?

- A) First
- B) Second
- C) Third ✓
- D) Fourth

15. Which of the following is an efficient method of cache updating? -

- A) Snoopy write
- B) Write through
- C) Write within
- D) Buffered write

16. Which of the following data structures is useful in traversing a given graph by breadth first search?

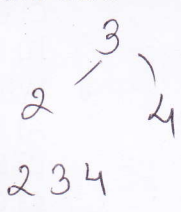
- A) Stack
- B) List
- C) Linked List
- D) Queue ✓

17. Which of the following statements is true?

- A) A for loop always executes at least once
- B) Arrays in C can change their size during program execution
- C) Functions help in modularizing a program and reducing code repetition ✓
- D) A while loop always executes its body and then checks the condition for the next iteration

18. Which of the following statements about a Binary Search Tree (BST) is true?

- A) The left child is always greater than the parent ✗
- B) Inorder traversal of a BST produces elements in ascending order ✓
- C) Preorder traversal of a BST always produces elements in ascending order
- D) BSTs cannot contain duplicate elements



19. Which of the following CSS3 properties can be used to allow line breaks within words? ✓

- A) line-break
- B) line-wrap
- C) word-wrap
- D) word-break

20. Which Oracle feature allows to recover data that have been improperly deleted or lost due to human error?

- A) Backup
- B) Recovery
- C) Flashback
- D) Restore

21. Which of the following system supports unstructured decisions?

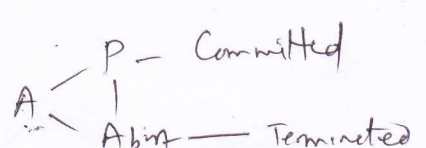
- A) TPS
- B) MIS
- C) DSS ✓
- D) EIS

22. Which command is used to remove a relation from an SQL?

- A) Delete
- B) Drop table ✓
- C) Purge
- D) Remove

23. Which of the following correctly represents the typical states of a DBMS transaction?

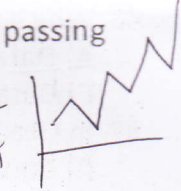
- A) Active → Committed → Partially Committed → Terminated ✗
- B) Active → Terminated → Partially Committed → Committed ✗
- C) Partially Committed → Active → Committed → Terminated ✗
- D) Active → Partially Committed → Committed → Terminated ✓



Virtual memory
allow pd

aggregation
association
composition

24. The mapping or classification of data with some predefined group or class is known as data
- A) characterization B) discrimination C) set D) association
25. A retail chain wants to analyze sales trends, forecast demand and evaluate the effect of promotions on revenue. Managers want to interactively explore "what-if" scenarios before making decisions. Which of the following system best supports this requirement?
- A) Decision Support System
B) Transaction Processing System
C) Customer Relationship Management System
D) Enterprise Resource Planning System
26. Which type of DSS is primarily focused on "what if" analysis and sensitivity testing?
- A) Data-Driven DSS B) Knowledge-Driven DSS
C) Document-Driven DSS D) Model-Driven DSS
27. How many rounds are there in DES encryption algorithm?
- A) 8 B) 10 C) 12 D) 16
28. Which type of chart is often used to show trends in data over time, such as stock price or temperature change?
- A) Bar Chart ✗ B) Line Chart ✓ C) Scatter Chart D) Pie Chart ✗
29. Which of the following statements about the Banker's Algorithm is true?
- A) It prevents deadlock by ensuring the system always remains in a safe state ✓
B) It can be used in systems with only one type of resource
C) It terminates processes if they request more resources than available
D) It allows circular wait but avoids mutual exclusion
30. Which of the following uses concept of OOP for the solution of producer consumer problem?
- A) Test and set lock B) Monitor C) Semaphore D) Message passing
31. Select the incorrect statements about virtual memory:
- I) It increased the degree of multiprogramming ✗ Correct
II) Doesn't allow address space to be shared by several process Incorrect
III) Reduces the context switching overhead more I | Incorrect
IV) Less I/O for individual user process more I | Incorrect
- A) I, II and III ✗ B) III and IV ✓ C) II and III D) II, III and IV
32. A command interpreter is also called as
- A) Prompt B) Kernel C) Shell D) Command
33. The correctly declared an array in C++ is
- A) array{10}; ✗ B) array array[10]; ✗ C) int array; ✗ D) int array[10];
34. Risk management is explicitly handled in SDLC model.
- A) RAD B) Spiral C) Waterfall D) Big Bang
35. Which of the followings is not an Agile principle?
- A) Customer collaboration B) Respond to change
C) Working software D) Following rigid plan ⇒
36. Who performs acceptance testing?
- A) Developers B) Test engineers
C) End users or clients ✓ D) System architects
37. Which of the following refers to the process of restructuring existing code without changing its functionality?
- A) Refactoring ✓ B) Debugging ✗
C) Reverse engineering ✗ D) Testing ✗



even sply
to be shared by several
processes

38. Which topology provides the highest fault tolerance due to multiple paths between nodes?
A) Star B) Bus C) Ring D) Mesh
39. Which layer of OSI reference model is responsible for data encryption, compression and translation?
A) Session B) Presentation C) Application D) Network
40. Which of the following protocols supports dynamic IP address assignment?
A) DHCP B) POP C) SMTP D) HTTP
41. If a digitally signed message is altered during transmission, how will the receiver detect it?
A) The encryption key changes B) The recalculated hash will not match
C) The public key expires D) The session key is invalid
42. Which of the following is not a type of cybercrime?
A) Data theft B) Forgery C) Ethical hacking D) Unauthorized access
43. Which one of the following security dimensions ensures that only those individuals with the proper authority can access sensitive data?
A) Confidentiality B) Integrity C) Availability D) Non-repudiation
44. Which organization is responsible to set up and manage PKI according to Electronic Transactions Act, 2003?
A) Integrated Data Management Center B) Government Integrated Data Center
C) Department of Information Technology D) Office of Controller of Certification
45. What is the term for the legal process of transferring a copyright or patent from one person or entity to another?
A) Infringement B) Public domain C) Licensing D) Attribution
46. Which of the following is not a type of SQL statement?
A) Data Definition Language B) Data Control Language
C) Data Communication Language D) Data Manipulation Language
47. In Oracle, which of the following is true about control files?
A) Control files are optional
B) Control files maintain database consistency
C) Control files are used only for backup
D) Control files store user data
48. The property of a transaction that persists all the crashes is
A) atomicity B) consistency C) isolation D) durability
49. Which keyword is used to create a procedure in Oracle?
A) DEFINE PROCEDURE B) CREATE PROCEDURE
C) DECLARE PROCEDURE D) MAKE PROCEDURE
50. Role Based Access Control (RBAC) is primarily used for
 A) authorization B) authentication C) encryption D) logging

- The End -

उत्तरपुस्तिकामा KEY अनिवार्य रूपमा लेख्नुहोला ।