MODEL QUESTION PAPER

Master of Computer Applications (MCA) – Skill Assessment

(Branch-Specific | For Reference)

This Model Question Paper is provided to help candidates understand the assessment structure, format, and branches covered under the HRVIEW Master of Computer Applications (MCA) Skill Assessment.
It is intended only for reference and does not represent the actual examination paper.

Assessment Snapshot

- **Assessment Type: Model Question Paper**

- **Assessment Mode: Online**

- **Question Format: Objective Type (MCQs)**

- **Total Number of Questions: 20**

- **Pass Criteria: 75%**

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1. Which data structure follows the FIFO principle?

A. Stack
B. Queue
C. Tree
D. Graph

✅ **Answer: B**

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2. The worst-case time complexity of linear search is:

A. O(1)
B. O(log n)
C. O(n)
D. O(n log n)

✅ **Answer: C**

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3. Which language is primarily used for web page structure?

Note for Candidates

This is a **model reference document** intended for **general understanding only**

A. CSS

B. JavaScript

C. HTML

D. PHP

✅ **Answer: C**

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4. In DBMS, a foreign key is used to:

A. Uniquely identify records

B. Improve query speed

C. Establish relationship between tables

D. Store encrypted data

✅ **Answer: C**

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5. Which operating system concept allows multiple users simultaneously?

A. Multitasking

B. Multithreading

C. Multi-user system

D. Batch processing

✅ **Answer: C**

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6. Which protocol is used to send emails?

A. FTP

B. HTTP

C. SMTP

D. POP3

✅ **Answer: C**

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7. Which normal form eliminates transitive dependency?

A. 1NF

B. 2NF

C. 3NF

D. BCNF

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✅ **Answer: C**

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8. Which algorithm is used for sorting in Java's Arrays.sort() (for primitives)?

A. Merge Sort
B. Quick Sort
C. Tim Sort
D. Heap Sort

✅ **Answer: B**

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9. Which memory is fastest?

A. RAM
B. Cache
C. Hard Disk
D. ROM

✅ **Answer: B**

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10. What does SQL stand for?

A. Structured Query Language
B. Simple Query Language
C. Standard Query List
D. Sequential Query Logic

✅ **Answer: A**

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11. Which software development model is best suited for small projects?

A. Spiral
B. Agile
C. Waterfall
D. V-Model

✅ **Answer: C**

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12. In Java, which keyword is used to inherit a class?

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A. implement

B. inherits

C. extends

D. super

✅ **Answer: C**

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13. Which data structure is best for implementing recursion?

A. Queue

B. Array

C. Stack

D. Linked List

✅ **Answer: C**

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14. Which type of testing is done by developers?

A. System testing

B. Acceptance testing

C. Unit testing

D. Regression testing

✅ **Answer: C**

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15. What is the full form of API?

A. Application Programming Interface

B. Advanced Program Interaction

C. Application Process Integration

D. Automated Programming Instruction

✅ **Answer: A**

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16. Which cloud model provides software over the internet?

A. IaaS

B. PaaS

C. SaaS

D. DaaS

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✅ **Answer: C**

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17. Which command is used to remove all rows from a table but keep its structure?

A. DROP
B. DELETE
C. REMOVE
D. TRUNCATE

✅ **Answer: D**

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18. Deadlock in OS occurs when:

A. CPU usage is high
B. Two processes wait for each other indefinitely
C. Memory is full
D. Disk fails

✅ **Answer: B**

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19. Which programming paradigm emphasizes objects?

A. Functional
B. Procedural
C. Object-Oriented
D. Logic

✅ **Answer: C**

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20. Which sorting algorithm has the best average-case performance?

A. Bubble Sort
B. Selection Sort
C. Insertion Sort
D. Quick Sort

✅ **Answer: D**

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