


COMPUTER SCIENCE 10TH – MULTIPLE CHOICE QUESTIONS

➔ PROBLEM SOLVING AND ALGORITHM DESIGNING

Chapter # 01

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1. The step by step solution of any program is called:
(a) A flowchart (b) A pseudo code
(c) ✓ An algorithm (d) None of these
2. Which of the following is not one of the steps in a programming project:
(a) Planning the solution (b) Coding the program
(c) Testing the program (d) ✓ Selecting the hardware
3. In preparing a program, one should first:
(a) ✓ Plan the solution (b) Documentation
(c) Coding (d) Define the problem
4. Problem solving steps of a program is called:
(a) Top-down design (b) Flowchart
(c) ✓ Algorithm (d) Run time error
5. A pictorial representation of program is called:
(a) ✓ A flowchart (b) an algorithm
(c) A pseudocode (d) None of these
6. Step by step instructions to solve the C++ program is called:
(a) ✓ Algorithm (b) Flowchart
(c) procedure (d) All of these
7. What does the  symbol in a flowchart represent:
(a) ✓ decision (b) process
(c) start/stop (d) predefined process

8. What does an arrow represent in a flowchart?
- (a) Decision making (b) ✓ Data flow
(c) Start (d) Stop
9. In a flowchart a calculation (process) is represented by:
- (a) ✓ A rectangle (b) A rhombus
(c) A parallelogram (d) A circle
10. _____ symbol is used to represent input and output operation in a flowchart.
- (a) Circle (b) Rectangle
(c) Diamond (d) ✓ Parallelogram
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11. When an algorithm is written in the form of a programming language, it becomes a:
- (a) Flowchart (b) ✓ Program
(c) Pseudo code (d) Syntax
12. A system wherein items are added from one and removed from the other end.
- (a) Stack (b) Linked list
(c) ✓ Queue (d) Array
13. Another name for 1-D arrays.
- (a) ✓ Linear arrays (b) Lists
(c) Horizontal array (d) Vertical array
14. A data structure that follows the FIFO principle.
- (a) ✓ Queue (b) LL
(c) Stack (d) Union
15. The process of drawing a flowchart for an algorithm is called _____.
- (a) Performance (b) Evaluation
(c) Algorithmic representation (d) ✓ Flowcharting

16. Which of the following is not an advantage of a flowchart?
- (a) Better communication (b) Efficient coding
(c) Systematic testing (d) ✓ Improper documentation
17. Which one of the following is the process of inserting an element in the stack?
- (a) Insert (b) Add
(c) ✓ Push (d) None of the above
18. Linear data structure arrange data in _____ method.
- (a) Non-linear (b) ✓ Linear
(c) Structure (d) None of the above
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19. A data structure that follows the LIFO principle.
- (a) Queue (b) LL
(c) ✓ Stack (d) Union
20. Which one of the following is the process of deleting an element in the stack?
- (a) Delete (b) ✓ Pop
(c) Push (d) None of the above
21. Which one of the following is the process of inserting an element in the queue?
- (a) Insert (b) ✓ Enqueue
(c) Add (d) None of the above
22. Which one of the following is the process of deleting an element in the queue?
- (a) ✓ Dequeue (b) Add
(c) Enqueue (d) None of the above
23. Rearrange a given array or list of elements is known as.
- (a) Inserting (b) Arranging
(c) Update (d) ✓ Sorting

24. Which data structure has a hierarchical structure?
- (a) ✓ Tree (b) Stack
(c) Queue (d) None of the above
25. A data structure in which data items are not arranged in linear method:
- (a) ✓ Non-linear (b) Linear
(c) Structure (d) None of the above

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