

10 MCQ For IBPS IT Officer Exam 2017

1)Void pointer can point to which type of objects?

- a)int
- b)float
- c)double
- d)all of the mentioned
- e)None of these

2)The Knapsack problem is an example of _____

- a)Greedy algorithm
- b)2D dynamic programming
- c)1D dynamic programming
- d)Divide and conquer
- e)None of these

3)Which of the following methods can be used to solve the Knapsack problem?

- a)Brute force algorithm
- b)Recursion
- c)Dynamic programming
- d>All of the mentioned
- e)None of these

4)What is the time complexity of the brute force algorithm used to solve the Knapsack problem?

- a) $O(n)$
- b) $O(n!)$
- c) $O(2n)$
- d) $O(n^3)$
- e)None of these

5)What is the time complexity of the above dynamic programming implementation of the Knapsack problem with n items and a maximum weight of W?

- a) $O(n)$
- b) $O(n + w)$
- c) $O(nW)$
- d) $O(n^2)$
- e) None of these

6) What is the space complexity of the above dynamic programming implementation of the Knapsack problem?

- a) $O(nW)$
- b) $O(n + w)$
- c) $O(n)$
- d) $O(n^2)$
- e) None of these

7) What is the time complexity of the recursive implementation used to find the nth fibonacci term?

- a) $O(1)$
- b) $O(n^2)$
- c) $O(n!)$
- d) Exponential
- e) None of these

8) Consider the strings "PQRSTPQRS" and "PRATPBRQRPS". What is the length of the longest common subsequence?

- a) 9
- b) 8
- c) 7
- d) 6
- e) None of these

9) Which of the following application makes use of a circular linked list?

- a) Undo operation in a text editor
- b) Recursive function calls
- c) Allocating CPU to resources
- d) All of the mentioned
- e) None of these

10) Binary Decision Diagram is a type of _____

- a) Multigraph
- b) Cyclic Graph
- c) Directed Acyclic Graph
- d) Directed Acyclic Word Graph
- e) None of these

Answers:

- 1) d
- 2) b
- 3) d
- 4) c
- 5) c
- 6) a
- 7) d
- 8) c
- 9) c
- 10) c