

MOCK Amazon PAPER – Downloadable – PDF Format

(20 questions in 20 minutes)

Section 1: Aptitude (5 questions)

1. You have a weight of 1 kg and a balance. In how many minimum measures can 59 kg of wheat be measured?

- 1] 5 2] 6 3] 7 4] 8

2. From a spherical ball of 10 cm radius, how many complete cubes of 5 cm side can be extracted out, if sphere cannot be molten?

- 1] 5 2] 6 3] 7 4] 8

3. At what speed should a car be driven to overtake a truck 100 m long in next 20 seconds? The truck is moving at 20 m/sec and has a lead of 1 km over the car.

- 1] 20 m/sec 2] 45 m/sec
3] 75 m/sec 4] 47.5 m/sec

4. Find the next term in the series: 2,12,36,80,150,.....

- 1] 512 2] 236 3] 252 4] 116

5. Three dice are thrown together. What is the probability that the sum of numbers on three dice is an LCM of five or more distinct integers?

- 1] 1/9 2] 4/27 3] 2/23 4] 4/9

Section 2: Technical Ability (15 questions)

1. What is the number of sub trees in a tree with 9 nodes?

- 1] 503 2] 216 3] 984 4] 1012

2. The space complexity of which of these sorting method is not $O(n^2)$?

- 1] Bucket sort 2] Merge sort 3] Heap sort 4] Insertion sort

3. To find nth element of Fibonacci series, what is the time complexity?

- 1] $O(n)$ 2] $O(n^2)$ 3] $O(n \lg n)$ 4] $O(n^3)$

4. The first operating system used in microprocessors is

- 1] Zenix 2] DOS 3] CP/M 4] Multics

5. Which of the following does not have 8 data lines?

- 1] 8085 2] 8086 3] 8088 4] Z-80

6. If memory access takes 20 ns with cache and 110 ns without cache, then the hit ratio, (cache uses a 10 ns memory) is,

- 1] 93% 2] 90% 3] 87% 4] 88%

7. n flip-flops will divide the clock frequency by a factor of

- 1] n^2 2] n 3] 2^n 4] $\log(n)$

8. Which of the following cannot be declared static?

- 1] Object 2] Functions
3] Member variables 4] none of these

9. Which of these specifiers need not be honored by compiler?

- 1] register 2] inline
3] both of these 4] none of these

10. Automatic conversion from primitive type to an object of the corresponding wrapper class is called

- 1] Coercing 2] Casting
3] Boxing 4] Widening

11. Which of the following does not have a super class?

- 1] System 2] Object
3] Lang 4] Exception

12. Which of the following need not be a binary tree?

- 1] Search Tree 2] Heap
3] AVL-Tree 4] B-Tree

13. Consider a B^+ tree in which the maximum number of keys in a node is 5. What is the minimum number of keys in any non root node?

- 1] 1 2] 2 3] 3 4] 4

14. Which of the following scheduling algorithms gives minimum average waiting time?

- 1] FCFS 2] SJF 3] Round Robin 4] Priority

15. If a relation scheme is in BCNF, then it is also in

- 1] first normal form 2] second normal form
3] third normal form 4] all of these

