

• Question No. 1

What is the best case time complexity of merge sort?

**Options :**

1.  $O(n \cdot \log n)$
2.  $O(\log n)$
3.  $O(n)$
4. None of these
- 5.

Answer :  $O(n \cdot \log n)$

• Question No. 2

Which is not an IoT OS?

**Options :**

1. Contiki
2. FreeRTOS
3. Mbed OS
4. Google Chrome
- 5.

Answer : Google Chrome

• Question No. 3

Fill the blank

In K-Means algorithm, we calculate the distance between each point of the dataset to every \_\_\_\_\_ initialized.

**Options :**

1. centroid

2. Centre
3. Mean
4. Variance
- 5.

Answer : centroid

• Question No. 4

Which is relational Database

**Options :**

1. MS Access
2. Struts
3. Oracle
4. Hibernate
- 5.

Answer : Oracle

• Question No. 5

In datawarehouse , a fact table consist of

**Options :**

1. Measurements
2. Metrics
3. facts
4. All of the above.
- 5.

Answer : All of the above.

• Question No. 6

State True or False

Kernel level thread cannot share the code segment.

**Options :**

1. True
2. False
- 3.
- 4.
- 5.

Answer : True

- Question No. 7

State True or False

**Semi-structured data** is data that does not conform to a data model but has some structure. It lacks a fixed or rigid schema. It is the data that does not reside in a relational database but that have some organizational properties that make it easier to analyze. With some processes, we can store them in the relational database.

**Options :**

1. True
2. False
- 3.
- 4.
- 5.

Answer : True

- Question No. 8

The latency of a network is

**Options :**

1. the time it takes for a data packet to be transferred from its source to the destination
2. the time it takes for a data packet to be transferred from hop to the destination.
3. the time it takes for a data packet to be transferred from its source to the next router.
4. None
- 5.

Answer : the time it takes for a data packet to be transferred from its source to the destination

• Question No. 9

Which is computer object code?

Options :

1. Source code
2. Bytecode
3. JDK
4. None
- 5.

Answer : Bytecode

• Question No. 10

Predict the output

```
list1 = ['physics', 'chemistry', 1997, 2000]
```

```
list2 = [1, 2, 3, 4, 5, 6, 7]
```

```
print "list1[0]: ", list1[0]
```

Options :

1. list1[1]: physics
2. list1[0]: physics
3. list1[2]: physics

4. None

5.

Answer : list[2]: physics

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