Previous Year Paper

NABARD Grade A Computer/IT Officer 2021 Memory Based Paper

Question No. 1

What is the best case time complexity of merge sort?

Options :

1. O(n*Log n)

2. O(Log n)

3. O(n)

4. None of these

*Answer : O(n*Log n)*

Question No. 2

Which is not an IoT OS?

Options :

1. Contiki

2. FreeRTOS

3. Mbed OS

4. Google Chrome

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

Answer : centroid

Question No. 4

Which is relational Database

Options :

1. MS Access

2. Struts

3. Oracle

4. Hibernate

Answer : Oracle

Question No. 5

In datawarehouse , a fact table consist of

Options :

1. Measurements

2. Metrics

3. facts

4. All of the above.

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

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 rational 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

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

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

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

Answer : list1[2]: physics

Descriptive Test

Attempt any 2 questions from (Q1 - to Q3) of (2 × 15 marks)

Q1. Write note on collection datatypes available in python with example.

Q2. Write a note on Machine learning, data mining and deep learning.

Q3. Write note on Binary search tree. Explain the best and worst case running time complexity and space complexity.

Attempt any 2 questions from (Q4- to Q6) of (2 × 10 marks)

Q4. What is Capability Maturity Model.

Q5. Write command that you'll use to configure or troubleshoot a network.

Q6. Why Hadoop is used in Big Data analytics? Explain the features of Hadoop.