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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester M.Sc Degree Examination, March/April 2021

MCS4E04d - Storage Area Networks

(2019 Admission onwards)

Time: 3 hours

Max. Weightage : 30

Section A

Answer any four questions. Each carries 2 weightage

1. What is a Storage Area Network? What are its advantages?
2. What are the different network topologies?
3. Describe different types of I/O Channels.
4. List out the different ports used in fibre channel.
5. Explain NAS architectures.
6. Explain the storage management tasks.
7. Write about backup and restoration in SAN.

(4 x 2 = 8 weightage)

Section B

Answer any four questions. Each carries 3 weightage

8. Differentiate Server Centric and Storage Centric network architectures
9. Describe the Intelligent Disk Subsystems.
10. Explain the Fibre Channel topologies
11. What are the four major components of Storage Area Network? Explain
12. Write about Fibre Channel Switch and Host Bus adaptor.
13. Explain SNMP, HTTP and TELNET.
14. Explain the general security guidelines.

(4 x 3 = 12 weightage)

Section C

Answer any two questions. Each carries 5 weightage

15. Explain the OSI reference model with a diagram.
16. Give detailed account on the layers of Fibre Channel
17. Explain the In band and Out of band network management functions
18. Explain the SAN design considerations.

(2 x 5 = 10 weightage)

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester M.Sc Degree Examination, March/April 2021

MCS4E03e - Fundamentals of Big Data

(2019 Admission onwards)

Time: 3 hours

Max. Weightage : 30

Section A**Answer any four questions. Each carries 2 weightage**

1. What do you mean by Big Data? Explain its importance.
2. Define unstructured data. List important sources of unstructured data in Big Data environment.
3. Describe different types of Big Data analytics.
4. List out the merits and demerits of NoSQL databases.
5. Illustrate the function of mapper class in Hadoop.
6. Explain the use of \$inc, \$set and \$unset.
7. Give the procedure to create a table for UFO data.

(4 x 2 = 8 weightage)**Section B****Answer any four questions. Each carries 3 weightage**

8. List and explain the four dimensions of Big Data.
9. Explain the role of CMS in Big Data Management.
10. Describe the different levels of NLP analysis on text.
11. List and explain important types of NoSQL databases.
12. What are wrapper classes? Explain primitive wrapper classes in Hadoop.
13. Explain the MapReduce paradigm for programming, with a suitable example.
14. Write notes on a) Zookeeper b) HBase

(4 x 3 = 12 weightage)**Section C****Answer any two questions. Each carries 5 weightage**

15. With a diagram, explain the Big Data stack.
16. Describe in detail about the characteristics of big data analysis.
17. Give detailed account on UFO data summarization.
18. Explain the distinguishing features of MongoDB. With the help of an example, explain the structure of a MongoDB database.

(2 x 5 = 10 weightage)