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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester M.Sc Computer Science Degree Examination, April 2023

MCS4E03 e- Fundamentals of Big Data

(2019 Admission onwards)

Time: 3 hours

Max. Weightage: 30

Section A

Answer any four questions. Each carry 2 weightage

1. Explain about operationalized and monetized bigdata analytics
2. Define the term text analytics. Explain its importance.
3. What are semi structured data? What are its characteristics?
4. "NoSQL databases are schema free"-Explain.
5. Write the features of graph databases.
6. What is a NameNode in Hadoop? Explain its functions
7. Write a note on primitive wrapper classes in Hadoop.

(4x 2=8)

Section B

Answer any four questions. Each carry 3 weightage

8. What you mean by veracity and velocity of data? Explain the concepts with suitable examples.
9. Explain the role of cloud computing in bigdata Management
10. List and explain different categories of information obtains as output of text extraction
11. What is document-oriented database? explain about different formats for representing document databases.
12. Explain about Pig and PigLatin
13. What are various map wrapper classes in Hadoop?
14. Explain the FILTER and TRANSFORM operators in Jaql.

(4x3=12)

Section C

Answer any two questions. Each carry 5 weightage

15. What is Bigdata? What are its characteristics? Explain in detail about various bigdata sources.
16. Describe in detail about the characteristics of big data analysis
17. Explain in detail about the components of Hadoop
18. Give a detailed account on MongoDB data model.

(2x5=10)

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Fourth Semester M.Sc Computer Science Degree Examination, April 2023

MCS4E04 D- Storage Area Networks

(2019 Admission onwards)

Time: 3 hours

Max. Weightage: 30

Section A

Answer any four questions. Each carries 2 weightage

1. Define Storage Area Network with a diagram? What are its uses?
2. Describe different types of I/O Channels.
3. Define the different ports used in fibre channel.
4. Explain SNMP and HTTP.
5. Explain the Fibre Channel topologies
6. What is NAS? Explain its architecture
7. What are the Storage network management issues?

Section B

Answer any four questions. Each carries 3 weightage

8. Explain the iSCSI Concept
9. Explain the Challenges of Network Storage
10. Explain the different networking and internetworking devices
11. Explain the different Classes of Service (CoS) of Fiber Channel
12. What are the different Configuration options for SAN?
13. Explain the Storage Management tasks.
14. Explain the different Security Guidelines in SAN implementation.

Section C

Answer any two questions. Each carries 5 weightage

15. Explain the In band and Out of band network management functions.
16. Explain the SAN design considerations.
17. Explain RAID Controller based on Stripping and Mirroring.
18. Explain the four major components of SAN in detail.