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**Question Paper Code: 99274**

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Open Elective

Civil Engineering

19UCS974- Cloud and Bigdata

(Common to ECE, EEE, MECH,IT, Chemical, AGRI, BME, CSBS & Biotechnology  
Engineering branches)

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is resource pooling and rapid elasticity? CO1-U
2. What are stages involved in evolution of cloud computing? CO1-U
3. Why object based storage is important in classic data center? CO2-U
4. What are the security concerns of cloud computing over traditional server environments? CO2-U
5. What is Bigadata? CO3-U
6. List out Few tools for bigdata CO3-U
7. Define Hadoop CO4-U
8. Differentiate between RDBMS versus Hadoop CO4-U
9. What are the benefits of multi cloud environment? CO5-U
10. Difference between Banking and Financial Sector CO5-U

PART – B (5 x 16= 80 Marks)

11. (a) Consider a scenario in which a company wishes to deliver IaaS to their clients. Being an administrator of the organization identify and suggest them the proper tool to manage the distributed virtual infrastructures. CO2- App (16)

Or

- (b) A private enterprise delivering the IaaS to their clients. In order to provide the un interrupted services to them, they are facing difficulty to schedule and manage the resources. As an administrator of this organization suggest them the proper scheduling techniques and apply it in-order to mitigate the issues faced by the organization. CO2- App (16)
12. (a) Explain in detail about the various security threats in cloud computing. CO2- U (16)
- Or
- (b) Explain in detail about the various vendors providing the security for public and private clouds. CO2- U (16)
13. (a) What is Big data? Describe the main features of a big data in detail. CO3- U (16)
- Or
- (b) Briefly Explain the main characteristics of Big Data. CO3- U (16)
14. (a) Explain Map reduce architecture in big data with example. CO4- U (16)
- Or
- (b) Explain in detail about NoSql and cap theorem. CO4- U (16)
15. (a) What is big data analytics? Explain four ‘V’s of Big data. Briefly discuss applications of big data. CO5- U (16)
- Or
- (b) Explain in detail about Benefits of Big data analysis in Cloud. CO5- U (16)