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**Question Paper Code: 97202**

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

Seventh Semester

Computer Science Engineering

19UCS702 - Cloud Computing

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define Cloud Computing for NIST 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 (CDC)? CO2- U
4. What are core elements of CDC? CO2- U
5. What are the types of services provided by Aneka Webservices? CO3- U
6. Compare static and dynamic resources. CO3- U
7. Classify the frameworks in Data Governance. CO4- U
8. What is the difference between Map and Reduce? CO4- U
9. Draw the Google App Engine request handling architecture. CO5- U
10. What type of services does provide by AWS? CO5- U

PART – B (5 x 16= 80 Marks)

- 11 (a) Explain in detail about cloud delivery or Service model CO1- U (16)  
Or  
(b) Describe about different types of cloud computing deployment models and its features and Limitations. CO1- U (16)
- 12 (a) Explain in details about Commonly deployed applications in a CDC. CO2- U (16)  
Or  
(b) Explain the physical components of Compute with suitable examples. CO2- U (16)

13. (a) A Private enterprise owns private cloud that consists of 8 numbers of dedicated desktops and it also equipped with data center managed by Type 1 Xen Hypervisor which provides 15 Virtual machines at a stretch. For a critical application to be executed it requires at least 40 number of resources to complete the task. In order to accomplish the given scenario as an administrator Select and apply the appropriate tool to deploy the private cloud setup and discuss about the types of resources and how the resources can be managed and acquired effectively. CO3- App (16)
- Or
- (b) An application is running in a server that intention is to count the common no of words that comes as a request. Discuss and Pick the proper model and apply it to accomplish the above given scenario. CO3- App (16)
14. (a) Suppose the Indian government has assigned you the task to count the population of India. You can demand all the resources you want, but you have to do this task in 4 months. Calculating the population of such a large country is not an easy task for a single person (you)? So what will be your approach? Explain in detail. CO4- App (16)
- Or
- (b) How does hadoop run a Map Reduce job for a word count application? Explain CO4- App (16)
15. (a) Illustrate the development of an Online Mark processing application using Google App Engine. CO5-App (16)
- Or
- (b) Explain types of roles in Windows azure for an online business application deployment. Also explain package structure and its required files for application deployment. CO5-App (16)