Question Paper Code: 97202

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

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   CO3- App   (16)
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.

Or

(b) An application is running in a server that intention is to count the   CO3- App   (16)
common no of words that comes as a request. Discuss and Pick
the proper model and apply it to accomplish the above given
scenario.

14. (a) Suppose the Indian government has assigned you the task to   CO4- App   (16)
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.

Or

(b) How does hadoop run a Map Reduce job for a word count   CO4- App   (16)
application? Explain

15. (a) Illustrate the development of an Online Mark processing   CO5-App   (16)
application using Google App Engine.

Or

(b) Explain types of roles in Windows azure for an online   CO5-App   (16)
business application deployment. Also explain package
structure and its required files for application deployment.

97202