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Question Paper Code	12772
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Sixth Semester

**Computer Science and Engineering
20CSPC603 - CLOUD COMPUTING**

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	Marks	K- Level	CO
1. Define Cloud Computing.	2	K1	CO1
2. Name the essential characteristics of cloud computing.	2	K1	CO1
3. State the role of virtualization layer.	2	K1	CO2
4. What do you mean by virtualization of CPU?	2	K1	CO2
5. Define Hypervisor and list out types.	2	K1	CO3
6. Compare - Private, Public, hybrid Cloud.	2	K1	CO3
7. List the security issues in cloud.	2	K1	CO4
8. Show the uses of application security.	2	K1	CO4
9. Describe the use of Hadoop.	2	K1	CO5
10. List four levels of federation.	2	K1	CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Explain in detail about the evolution of cloud computing.	13	K2	CO1
OR			
b) Discuss in detail On-demand Provisioning and list out its benefits.	13	K2	CO1
12. a) Describe SOAP? Explain the SOAP messaging framework with a diagram.	13	K2	CO2
OR			
b) Illustrate the following			
i) REST Architecture	7	K2	CO2
ii) Pushing and subscription method	6	K2	CO2
13. a) Explain the various Layered Cloud Architectural Development design for effective cloud computing environment.	13	K2	CO3

OR

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

12772

- b) Describe in detail about Cloud Storage and its uses with neat sketch. 13 K2 CO3
14. a) Summarize the inter-cloud resource management. 13 K2 CO4

OR

- b) Write the purpose of IAM and discuss its functional architecture with a neat sketch? 13 K2 CO4
15. a) Write Short notes on:
- i) Eucalyptus 4 K2 CO5
 - ii) Open Neubla 4 K2 CO5
 - iii) Open Stack 5 K2 CO5

OR

- b) Explain in detail the architecture of Google App Engine? 13 K2 CO5

PART - C (1× 15 = 15 Marks)

16. a) Demonstrate the HDFS concepts with suitable illustrations. Develop a word count application with Hadoop Map Reduce programming model. 15 K3 CO6

OR

- b) Illustrate dataflow in HDFS during file read/write operation with suitable diagrams. 15 K3 CO6