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**Question Paper Code: U7802**

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

Seventh Semester

INFORMATION TECHNOLOGY

21UIT702-CLOUD SERVICE MANAGEMENT

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 2 = 20 Marks)

1. Compare full virtualization and para-virtualization. CO1-U
2. Outline Hypervisor and list its types. CO1-U
3. Identify the storage technique that combines multiple physical disk drives into a single logical unit to improve performance, redundancy, or both. CO2-App
4. List the levels of Redundant Array of Independent Disks (RAID). CO1-U
5. Compare static resource and dynamic resource. CO1-U
6. Summarize the basic things to be considered for moving workflow engine to clouds. CO1-U
7. Summarize about AWS Security mechanism. CO1-U
8. Outline various security concerns and counter measures related to cloud environments. CO1-U
9. Outline the security issues to be discussed with a cloud-computing vendor. CO1-U
10. List the features of Google App Engine. CO1-U

PART – B (5 x 16= 80 Marks)

11. (a) Discuss the different types of cloud computing deployment models its features and its Limitations. CO1-U (16)
- Or
- (b) Explain in detail about XEN Para virtualization and Microsoft HyperV. CO1-U (16)

12. (a) A company is facing the problem of maintaining Equipment's that are distributed across several branches and locations. Identify and suggest a way to bring their devices to a central location and manage it cost effectively. CO2 -App (16)

Or

(b) Your company is moving its data center operations to a new facility to take advantage of modern infrastructure and improve operational efficiency. What steps would you take to ensure a smooth and successful data center migration? CO2 -App (16)

13. (a) Explain in detail about the various services that are provided by the Aneka framework architecture. CO1-U (16)

Or

(b) Explain in detail about Infrastructure and logical organization in building Aneka Clouds. CO1-U (16)

14. (a) (i) Examine in detail about security issues which one should discuss with a cloud-computing vendor. (8) CO1-U (16)  
(ii) Discuss in detail about cloud security challenges. (8)

Or

(b) (i) Explain how does hadoop run a Map Reduce job for a word count application. (8) CO1-U (16)  
(ii) Discuss with example how to write JOIN operation using Map Reduce model. (8)

15. (a) Explain Google App Engine architecture with neat diagram. CO1-U (16)

Or

(b) Explain in detail about Amazon web services. CO1-U (16)