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S.Y. M.C.A. (Management)

CMM 614 MJ : CLOUD MIGRATION AND MANAGEMENT

(2024 Pattern) (Semester - III)

Time : 2½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

Q1) a) Discuss the six R's of cloud migration with suitable examples. **[5]**

b) What is post migration optimization? Explain its importance in ROI analysis. **[5]**

OR

c) Describe the steps involved in cloud readiness assessment **[5]**

d) Explain the role of risk management in succesful cloud migration. **[5]**

Q2) a) What are the roles of CI/CD pipelines in cloud migration? Discuss best practices for the same **[5]**

b) A Global e-commerce company wants to migrate its services from on premise to multi cloud (AWS + Azure) Design a step by step migration plan ensuring zero downtime. **[5]**

OR

c) Explain Hybrid and multi cloud migration with approaches. **[5]**

d) Atlas Bank a large retail Bank operating in multiple countries in planning to migrate ist core banking systems to the cloud. The bank's current infrastructure is outdated and they want to take advantages of the scalability flexibility & cost savings affered by cloud computing. Also the bank is facing the issues of SLA breaches during migration Analyse causes & recommend solution. **[5]**

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Q3) a) Discuss resource management techniques for automated provisioning, scaling and storage. **[5]**

b) What is cloud Governance? Discuss its frameworks and principles. **[5]**

OR

c) A Large Hospital network operating 10 hospitals across the country, is planning to migrate it's electronic Health Records (EHRs) system to the cloud. The hospital network has concerns about ensuring the security and compliance of sensitive patient data, while also improving scalability and reducing costs.

Question:

As a cloud consultant design a cloud migration and governance strategy for the hospital network's EHRs system, addresing the following requirements: **[10]**

i) Security and compliance
ii) Scalability and performance
iii) Cost optimization
iv) Data integration
v) Governance Framework

Q4) a) Discuss pricing models of different cloud service providers **[5]**

b) List and explain troubleshooting techniques in cloud Environment **[5]**

OR

c) Evaluate the criteria for evaluating QSP's. **[5]**

d) A startup plans to migrate to the cloud but is confused between GCP and Azure. prepare a comparison based on princing QoS and reliability. **[5]**

Q5) a) Discuss the importance of sustainability & Green cloud initiatives **[5]**

b) Discuss innovations transforming cloud migration practices. **[5]**

OR

c) Write short notes (any two) **[5 each]**

i) Serverless Computing
ii) AWS migration Hub
iii) Google migrate for compute engine.

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Q4) Solve any two :

a) Prepare the list of various web application components and write about those components. **[5]**

b) Demonstrate the role of web application security measures in securing web application. **[5]**

c) Explain brute force and dictionary attacks with suitable example. **[5]**

Q5) Solve any two :

a) Describe the role of AI in Ethical hacking. **[5]**

b) Discuss the various types of vulnerabilities that exist in cloud-based systems. **[5]**

c) Explain different types of vulnerability assessment. Also enlist various vulnerability assessment tools. **[5]**

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