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Total No. of Questions : 5]

SEAT No. :

PE4215

[Total No. of Pages : 3

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S.Y.M.C.A.

CMM 614 MJ : CLOUD MIGRATION & 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 common risk in cloud migration & how to manage them? **[5]**

b) List the key drivers for cloud migration and what are the main challenges faced in cloud migration? **[5]**

OR

c) Explain significance of pre-migration planning & post - migration optimization. **[5]**

d) Explain ROI assessment in cloud migration with example? **[5]**

Q2) a) What is the role of CI/CD pipeline in cloud migration? Discuss with best practices of the same. **[5]**

b) A university plans to migrate its student information system (SIS) to the cloud to improve scalability, reduce cost and enhance collaboration. The SIS contains sensitive student data & the university needs to ensure the security and compliances of this data in the cloud. **[5]**

Questions :

i) What cloud deployment model (public, private or hybrid) would you recommend for the SIS?

ii) How would you ensure the secure and compliance of sensitive student data in the cloud?

iii) What cloud migration strategy would you use to minimize disruption to student & faculty?

OR

P.T.O.

c) Write a short note on SLA levels and their importance in cloud service delivery. **[5]**

d) 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]**

Q3) a) Define cloud Governance and describe principles of cloud governance frameworks. **[5]**

b) Explain compliance and risk management in cloud governance. **[5]**

OR

c) Academic institute operating 10 of its branches across the state, its planning to migrate its Electronic Employee Record (EER) system to the cloud. The institute network has concerns about ensuring the security and compliance of sensitive employee data, while also improving scalability and reducing costs. **[10]**

Questions :

As a cloud consultant design a cloud migration and governance strategy for the Institute network's EERs system, addressing the following requirements.

i) Security and compliance

ii) Scalability and performance

iii) Cost optimization

iv) Data Integration

v) Governance framework

Q4) a) Campare the pricing model of AWS, Azure and GCP. **[5]**

b) List the troubleshooting technique and also explain incident management practices in cloud migration. **[5]**

OR

c) Evaluate quality of service (QoS) parameters. **[5]**

d) A start-up plans to migrate to the cloud but it is confused between AWS and GCP. Prepare a comparison based on pricing QoS and reliability. **[5]**

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Q5) a) Describe the concept of serverless computing & its use in real time analytics. **[5]**

b) Explain the concept of Green cloud computing. Give Google cloud's carbon footprint examples. **[5]**

OR

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

i) AWS migration Hub

ii) Google migrate for compute engine

iii) Sustainability in cloud computing

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