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Total No. of Questions : 5]

PE-4193

SEAT No. :

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

FCC510MJ - Fundamentals of Cloud Computing

(2024 Pattern) (Semester - I)

Time : 2½ Hours] *[Max. Marks : 50*

Instructions to the candidates :

1) *All questions are compulsory.*

2) *All questions carry equal marks.*

Q1) a) Define cloud computing. Explain its evolution. **[5]**

b) Compare cluster computing Vs. Grid computing. **[5]**

OR

c) Discuss containers. Compare containers with virtual machines. **[5]**

d) Discuss the advantages and disadvantages of cloud computing for businesses and individuals. **[5]**

Q2) a) Explain the different cloud deployment models. **[5]**

b) Explain cloud service models in detail. **[5]**

OR

c) Explain storage as a service and Database as a service in detail. **[5]**

d) Describe the types of cloud storage. **[5]**

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Q3) a) What is a Hypervisor? Explain the difference between Type-1 and Type-2 hyperviser. **[5]**

b) Explain Xen Hypervisor and its Para-virtualization approach. **[5]**

OR

c) Define Machine Image. Explain how VMS are created and managed using machine images. **[5]**

d) Describe open - source virtualization managers. **[5]**

Q4) a) Discuss the concept of service oriented architecture. **[5]**

b) Explain the concept of Multi Cloud Environment. **[5]**

OR

c) What is a Service Level Agreement. **[5]**

d) Explain Edge Computing with example. **[5]**

Q5) **Case study :**

A bank plans to migrate its core banking system to a cloud platform. The system requires high security disaster recovery and real-time transaction processing.

Questions :

a) Which cloud platform would you recommend and why? **[5]**

b) How can cloud bursting be used to handle peak transaction loads during holidays or end-of-month processing? **[5]**

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