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3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answer with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following: 10
- a) Define a hybrid cloud.
 - b) List any three characteristics of a virtualized environment.
 - c) Name any two components of a VDC environment.
 - d) List any two types of cloud risks.
 - e) List four phases of the cloud service life cycle.
 - f) State the use of on-demand self-service in cloud computing.
 - g) State any two techniques for VM migration.

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- 2. Attempt any THREE of the following: 12**
- a) Differentiate between live migration and cold migration. (Write any four points)
 - b) Which type of SLA is more relevant for a customer using SaaS? Justify your answer with proper reasoning and an example.
 - c) Explain the role of ZigBee technology in enabling IoT connectivity for low-power, short-range communication.
 - d) Compare Public and Private Cloud. (Write any four points)
- 3. Attempt any THREE of the following: 12**
- a) Which VM migration technique is most suitable for moving a VM running critical services without downtime? Justify your answer with suitable example.
 - b) Explain the benefits of server virtualization in a VDC. (Any four)
 - c) A startup needs a scalable platform to deploy applications without managing infrastructure. Which cloud service would you recommend? Justify.
 - d) Explain the purpose of a virtualization layer.
- 4. Attempt any THREE of the following: 12**
- a) Identify the cloud computing trend that enables students to access educational resources from multiple devices without downloading, and explain how it works?
 - b) What is VM Migration? Also explain VM Management.
 - c) Explain the importance of access control in cloud computing.
 - d) A company wants to run Linux and Windows on the same server. How does virtualization help?
 - e) Differentiate between CRM and ERP in the context of cloud computing. (Write any four points)

5. Attempt any TWO of the following: 12

- a) Explain the role of middleware in cloud computing.
- b) An IT company wants to reduce hardware costs and increase flexibility. How virtualization can help?
- c) Explain the importance of trust management in cloud computing and its role in ensuring security between cloud providers and users.

6. Attempt any TWO of the following: 12

- a) A company uses multiple SaaS applications and wants to allow employees to log in with a single set of credentials. Which IAM feature would you recommend and why?
 - b) Explain the benefit of using Google App Engine for developers.
 - c) Explain the role of the operationalization phase in the SLA life cycle.
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