

22624

23242

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 answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

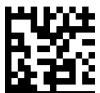
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- (a) List down the properties of Cloud Computing. (Any two)
- (b) Define Virtual Provisioning.
- (c) State functions of Cloud Portal. (Any two)
- (d) Enlist technologies in IoT. (Any two)
- (e) List any two types of cloud deployment model.
- (f) Differentiate between block level and file level storage virtualization. (Any two)
- (g) Give any two types of service level agreement.

2. Attempt any THREE of the following :

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- (a) Describe virtualization reference model with diagram.
- (b) Draw and explain virtual data centre architecture.
- (c) Describe Cloud Resource Management.
- (d) State any four cloud security risk.



- 3. Attempt any THREE of the following : 12**
- (a) Describe cloud economics and benefits.
 - (b) Describe VSAN and list its benefits.
 - (c) Describe service catalog management.
 - (d) Describe Home based cloud computing.
- 4. Attempt any THREE of the following : 12**
- (a) Describe storage virtualization with any two advantages.
 - (b) Justify security-as-a-cloud service.
 - (c) Describe Amazon EC2.
 - (d) Give benefits of VMWare. (Any four)
 - (e) Differentiate between OpenNebula and Openstack.
- 5. Attempt any TWO of the following : 12**
- (a) Discuss the need of Virtual Data Centre (VDC).
 - (b) Discuss the need of cloud resource management.
 - (c) List and discuss virtualization and cloud computing security best practices.
- 6. Attempt any TWO of the following : 12**
- (a) Give features of GFS and HDFS and justify which system is better according to you.
 - (b) Describe cloud service life cycle required to design a cloud based e-learning system in your campus.
 - (c) Discuss IoT technologies required for developing smart homes.
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