

**(3 Hours)****[Total Marks: 80]****N.B. (1) Question No. 1 is compulsory****(2) Attempt any three questions out of the remaining five questions****(3) Figures to the right indicate full marks****(4) Assume suitable data whenever required**

- Q1** a) Define the components of NIST Model. **5M**  
 b) Explain Storage as a service. **5M**  
 c) What is the significance of cloud computing with respect to on premise infrastructure? Justify with example **5M**  
 d) What is DynamoDB? State the features of DynamoDB **5M**
- Q2** a) What is Cloud Computing? explain various cloud service models and differentiate between them. **10M**  
 b) Explain the various instances in EC2? Discuss AWS EC2 instance life cycle. **10M**
- Q3** a) What are various components in cloud computing architecture. **10M**  
 b) What is the job of Xen Hypervisor? How is it helpful for large scale industries. Explain Architecture of Xen Hypervisor in detail. **10M**
- Q4** a) Explain Mobile Cloud Computing Architecture with its benefits and challenges. **10M**  
 b) Explain AWS S3 Storage and Glacier Storage with comparison between them. **10M**
- Q5** a) Differentiate Hosted virtualization with Bare Metal. Also explain various mechanism of virtualization with architecture. **10M**  
 b) Explain various components and architecture of Openstack. **10M**
- Q6** Write a short note on (Any Four) **20M**  
 a) Cloud Cube Model  
 b) AWS Core Services  
 c) Anything as a Service  
 d) Cloud Watch Matric  
 e) AWS Lambda

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