

Total No. of Questions : 8]

SEAT No. :

PE-2514

[Total No. of Pages : 2

[6583]-40

**T.E. (Computer Engineering) (AI & DS)**

**CLOUD COMPUTING**

**(2019 Pattern)(Elective - II)(Semester - VI)(310254C)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.*
- 2) *Figures to the right side indicate full marks.*
- 3) *Neat diagram must be drawn wherever necessary.*
- 4) *Assume Suitable data, if necessary.*

**Q1)** a) Explain Virtualization in Grid and Virtualization in cloud. [8]

b) Define Virtualization? Explain different types of Virtualization. [9]

**OR**

**Q2)** a) Write short notes on the following (any two) [8]

- i) CPU Virtualization
- ii) Storage Virtualization
- iii) OS Level Virtualization
- iv) Virtualization Application

b) Explain the Functionality of hypervisor? What is type 1 and type 2 hypervisor? [9]

**Q3)** a) Enlist the different services offered by Amazon Web Services? Explain any three. [9]

b) Explain an applications of cloud computing in business and consumer Application - CRM & ERP. [8]

**OR**

**Q4)** a) Explain Google cloud Application in details. (Any three) [9]

b) Explain Microsoft Azure with its architecture. [8]

*P.T.O.*

- Q5)** a) What are different risks in cloud computing and how to manage them?[9]  
b) Describe the Cloud Security Services in detail, also explain content level security. [9]

**OR**

- Q6)** a) Explain secure cloud software testing in detail. [9]  
b) Explain Data Security Advantages and disadvantages in cloud computing.[9]

- Q7)** a) Draw and explain Mobile cloud architecture in details. [9]  
b) Differentiate between cloud computing Vs edge computing also write short note on Jungle Computing. [9]

**OR**

- Q8)** a) Explain concept of containers, Dockers and Kubernetes in detail. [9]  
b) How does the cloud and IoT works together for Home automation?[9]

