

Total No. of Questions : 8]

SEAT No. :

**PB4276**

[Total No. of Pages : 2

**[6264]-255**

**F.Y. M.E. (E & TC) (IoT & Sensor System)**  
**CLOUD ARCHITECTURE & PROTOCOLS**  
**(2017 Pattern) (Semester - II) (504609)**

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates:*

- 1) *Attempt any 5 questions out of 8.*
- 2) *Neat diagrams must be drawn whenever necessary.*
- 3) *Figures to the right of questions indicate full marks.*
- 4) *Assume suitable data, if necessary.*

**Q1) a)** Explain cloud computing with all essential characteristics. **[5]**

b) Explain the roots of cloud computing in detail. **[5]**

**Q2) a)** Compare cloud providers with traditional IT service providers. **[5]**

b) Explain the essential components of cloud computing. **[5]**

**Q3) a)** Write short note on : **[5]**

i) High performance Computing

ii) Grid Computing

b) Explain the limitations for cloud scenarios in terms of sensitive information and application development. **[5]**

**Q4) a)** Describe architectural considerations for collecting data in cloudbased systems. **[5]**

b) Explain the shared responsibility model in cloud computing and its relevance to regulatory compliance. **[5]**

**P.T.O.**

- Q5)** a) Compare and contrast cloud deployment models. [5]  
b) Compare IaaS and SaaS in terms of advantages, disadvantages and applications. [5]
- Q6)** a) Give a detailed analysis of challenges and risks in cloud adoption. [5]  
b) Explain cloud architecture in detail. [5]
- Q7)** a) Highlight the role of virtualization & virtual machines in cloud computing and illustrate with necessary examples. [5]  
b) Write short note on green computing. [5]
- Q8)** a) What are virtual machines. Explain the process of creating a virtual machine. [5]  
b) Write short note on Cloud Simulators. [5]

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