

B.Sc. - III (CBCS Pattern) Semester-VI  
**USCST11.2 - Elective-II - Computer Science Paper-II : Data Communication  
with Cloud Computing**

P. Pages : 2

Time : Three Hours



**GUG/S/25/13346**

Max. Marks :50

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- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labeled diagram wherever necessary.
  3. Avoid vague answer and write answer relevant and specific to questions only.

**Either:**

1. a) Explain in brief about analog and digital data transmission. 5
- b) Explain Data Link control protocols in detail. 5

**OR**

- c) Explain the transmission impairment and its types. 5
- d) What is multiplexing? Explain the frequency division multiplexing. 5

**Either:**

2. a) Explain the digital network in detail. 5
- b) What is Topology? Explain the Ring topology. 5

**OR**

- c) What is switching? Explain the packet switching with suitable diagram. 5
- d) Explain the Single Node Network with suitable diagram. 5

**Either:**

3. a) Explain OSI model in detail. 5
- b) Explain the principles of internetworking. 5

**OR**

- c) What is TCP/IP protocols Architecture? Explain its operation in detail. 5
- d) Write a note on:  
i) Bridge ii) Router 5

**Either:**

4. a) Explain public and hybrid cloud computing deployment models. 5
- b) Differentiate between cloud computing and distributed computing. 5

**OR**

- c) What do you mean by cloud computing Explain. **5**
- d) Explain: **5**
- i) IaaS ii) PaaS

**5.** Attempt all the questions.

- a) Write a note on Flow control. **2½**
- b) Explain in short about X.25. **2½**
- c) What do you mean by connection oriented internetworking? **2½**
- d) Write down the limitations of cloud. **2½**

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