

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/W/24/13346**

Max. Marks : 50

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

**Either:**

1. a) Define analog and digital data transmission? Explain Frequency modulation. 5
- b) Explain in brief Asynchronous Data transmission. 5

**OR**

- c) What is Transmission media? Explain coaxial cable media in detail. 5
- d) Write note on- 5
  - i) Error controls
  - ii) Flow controls

**Either:**

2. a) Explain in brief virtual circuit. 5
- b) Write advantages and disadvantages of Wide Area Network (WAN). 5

**OR**

- c) Explain in brief Bus topology. 5
- d) Define switching in network? Write note on message switching. 5

**Either:**

3. a) Explain Physical layer OSI model in brief. 5
- b) Write advantages of internetworking. 5

**OR**

- c) Explain routing bridge in brief. 5
- d) Why IP protocol called connectionless? Explain in short. 5

**Either:**

- 4. a) Explain the type of Internal Network Virtualization in cloud computing. 5
- b) Describe Software as a Service (SaaS) cloud computing. 5

**OR**

- c) Write note on- 5
  - i) Public cloud and
  - ii) Private cloud
- d) Explain hybrid cloud computing deployment model. 5

5. **All** questions are compulsory.

- a) What is bounded media? Write example of bounded media. 2½
- b) Write benefits of ring network topology. 2½
- c) Write basic principles of internetworking. 2½
- d) What is a cloud environment? What is the role of cloud computing? 2½

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