

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

P. Pages : 2

Time : Three Hours



**GUG/S/23/13346**

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw neat labelled diagram whenever necessary.

Either :-

1. a) What is transmission impairment in computer network? What are the causes of transmission impairment? Write in short. 5
- b) Write note on 5
- 1) Parity check error detection.
- 2) Cyclic Redundancy check error detection.

**OR**

- c) Explain twisted pair transmission media. 5
- d) Define data link control? Write functions of data link controls. 5

Either :-

2. a) Describe the phases of packet switching. 5
- b) Explain single node network configuration. 5

**OR**

- c) Write advantages and disadvantages of Ring network topology. 5
- d) Explain with suitable example of reservation access control protocol. 5

Either :-

3. a) Explain application layer in OSI model. 5
- b) Write characteristics and advantages of WAN architecture. 5

**OR**

- c) Why IP protocol called connectionless? Explain in short. 5
- d) Differentiate between connection – oriented and connection-less services. 5

Either :-

4. a) What are the types of virtualization in cloud computing? Explain any one of them. 5
- b) Describe infrastructure as a service (IaaS) of cloud computing. 5

**OR**

- c) Explain public cloud computing deployment model. 5
- d) Write limitations of cloud computing. 5
5. Attempt all the questions.
- a) What is bounded media? Write examples of bounded media. 2½
- b) Write note on message switching. 2½
- c) Write functions of physical layer in OSI model. 2½
- d) Define the term hybrid cloud computing. 2½

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