

Bachelor of Science (B.Sc.)-III Sixth Semester  
**B.Sc.4515-Computer Science Paper-II Elective-II**  
**(Data Communication With Cloud Computing Basics)**

P. Pages : 1

Time : Three Hours



**GUG/W/18/1342**

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram wherever necessary.
  3. Avoid vague answer.

1. Either:-

- a) Discuss Frequency Division multiplexing and Time Division multiplexing. 5
- b) Differentiate Analog and Digital Data. 5

**OR**

- c) Differentiate between synchronous and Asynchronous data transmission. 5
- d) Explain 5
  - i) Flow control
  - ii) Error detection Technique.

2. Either:-

- a) Explain packet switching. 5
- b) Discuss on MAN technology. 5

**OR**

- c) Explain Traffic controls and Datagram. 5
- d) Discuss Circuit Switching. 5

3. Either:-

- a) Discuss in detail OSI model. 5
- b) Explain Connectionless Internetworking. 5

**OR**

- c) Discuss optical Fiber and Ring Topologies. 5
- d) Explain X.25 protocol. 5

4. Either:-

- a) Explain Cloud Components in detail. 5
- b) Differentiate cloud computing and distributed computing. 5

**OR**

- c) Discuss Regular issues with cloud. 5
- d) Explain the different elements of cloud. 5

5. Solve all the following questions.

- a) What is Interfacing. 2½
- b) Write a note on single node networks. 2½
- c) Write a note on Bridge. 2½
- d) Write a note on cloud computing Architecture. 2½

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