

B.Sc.- III (IT) Sem-V
5BIT3 - Data Communication and Cloud Computing Paper-III

P. Pages : 2

Time : Three Hours



GUG/S/19/1445

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labeled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answers related to Questions.

1. Either

- a) Define Data Transmission. Explain different transmission Impairment in detail. 8
- b) What do you mean by Data Encoding? Explain digital to analog encoding techniques. 8

OR

- c) Explain different Error Detection Technique. 8
- d) Explain following: 8
 - 1) Flow control
 - 2) Interfacing.

2. Either

- a) What do you mean by switching? Explain circuit switching network in detail. 8
- b) What is Routing? Explain following in detail: 8
 - 1) Fixed Routing
 - 2) Flooding

OR

- c) Explain following in detail: 8
 - 1) Virtual Circuit and Datagram
 - 2) X.25
- d) What do you mean by Topologies? Explain any three topologies in detail. 8

3. Either

- a) What is protocol? Explain different protocol functions which are present in different levels. 8
- b) What is TCP/IP protocol Architecture? Explain it's operation in detail. 8

OR

- c) Differentiate between connectionless and connection oriented internetworking. 8
- d) What is the use of routing table which is maintained by the router? Discuss the importance of routing protocols. 8

4. Either

- a) What is cloud computing? Explain History of Cloud. 8

b) Explain different benefits and limitations of cloud computing. 8

OR

c) Explain the concept of cloud computing with the titans - Google. 8

d) Explain following in detail: 8

1) Cloud Security. 2) Cloud Services.

5. Solve all the Questions.

a) Write short note on Time Division multiplexing. 4

b) Write note on Medium Access control protocols. 4

c) Discuss in short about System Network Architecture. 4

d) Differentiate between distributed computing and cloud computing. 4
