

B.Tech. SEM -V Info. Tech. 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: DATA COMMUNICATION & NETWORKS

Day: Saturday
Date: 11/05/2019

S-2019-2678

Time: 10.00 AM TO 01.00 PM
Max Marks : 60

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable calculator is **ALLOWED**.
- 4) Assume suitable data, if necessary.

Q.1 What do you mean by Data Communication? Demonstrate with the help of suitable example how the Digital data is suitable for communication purpose than Analog data. (10)

OR

Q.1 Elaborate and compare digital data signal encoding methods. (10)

Q.2 Briefly explain different types of transmission media used for data communication. (10)

OR

Q.2 Describe switching with its types. Differentiate between Circuit switching and Packet switching. (10)

Q.3 Compare Asynchronous and Synchronous way of transmission. (10)

OR

Q.3 State and explain various types of Spread spectrum techniques. (10)

Q.4 List the classification of network in detail according to the area covered. Also explain each classification of network in detail. (10)

OR

Q.4 Draw and explain the TCP/IP model used for the network. How it is different than OSI/ISO seven layers model? (10)

Q.5 With diagram explain how Address resolution protocol and Reverse address resolution protocol work on network. (10)

OR

Q.5 Using an example, explain how Routing is done through an Internet. (10)

Q.6 Explain the significance of Quality of Services (QoS). List the techniques available to improve Quality of services (QoS) and explain any two of them in detail. (10)

OR

Q.6 Discuss the following application layer protocols briefly: (10)

- i) FTP
- ii) SMTP
- iii) HTTP
- iv) Telnet

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