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**B. Tech. (ECE) Professional Elective-IV 7th Semester
(G-Scheme) Examination, November-2023
DATA COMMUNICATION OF NETWORK SECURITY
Paper-PEC-ECE-411-G**

Time allowed : 3 hours]

[Maximum marks : 75

Note: Select one question from each unit. All questions carry equal marks. Question No. 1 is Compulsory.

1. (a) Discuss Digital to analog conversion only one of the type. 4
- (b) Explain the Telephone N/W briefly 4
- (c) What do you mean by Unicast routing. 4
- (d) Explain voice over IP briefly. 3

Unit-I

2. Explain the OSI Model with neat diagram. Discuss each layer in detail. 15
3. Use Serval Transmission media for Networking. Explain two media in brief. 15

Unit-II

4. What do you mean by Multiplexing. Explain FDM, WDM and TDM in details. 15
5. What is Framing in data link layer? Explain Different Methods of Framing in data link layer. 15

Unit-III

6. Write Short Notes on Hierarchical routing and Broadcast routing. 15
7. (a) Explain the concept of TCP Congestion Control. 7½
- (b) If receiver window size is 16000 Bytes and maximum segment size is 1000 Byte then after how many RTT sender will send full window. 7½

Unit-IV

8. What do you mean by cryptography. Explain Symmetric Key Algorithm and Public Key Algorithm. 15
9. Write short Notes on:
- (i) DNS 5
- (ii) Audio and video compression 5
- (iii) FTP 5