

IV B.Tech I Semester Supplementary Examinations, July/Aug - 2021

**COMPUTER NETWORKS**

(Common to Electronics &amp; Communication Engineering and Electronics &amp; Instrumentation Engineering)

**Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any FOUR questions from Part-B*

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**PART-A(14 Marks)**

1. a) Write briefly about WAN. [3]
- b) What are the functions of MAC? [3]
- c) Define flow control and error control. [2]
- d) What is the Channel Allocation Problem? [2]
- e) Define load shedding. [2]
- f) What is the purpose of Domain Name System? [2]

**PART-B(4x14 = 56 Marks)**

2. Explain the OSI model of Computer network with a neat diagram. [14]
3. a) Write a note on Fourier Analysis in Computer networks. [7]
- b) Explain in detail Frequency Division Multiplexing. [7]
4. a) With neat sketch explain Coaxial cable, Standards of Coaxial cable and connectors of Coaxial cables. [7]
- b) Explain in detail about sliding window protocols. [7]
5. a) Explain 805.11 Frame structure and services. [7]
- b) Discuss about collision free protocols. [7]
6. a) With neat sketch explain Circuit switching and Packet switching. [7]
- b) Explain Connectionless Service and Connection Oriented Service. [7]
7. a) Explain the Services of Transport layer. [7]
- b) Explain the working of DNS. [7]