

**III B. Tech II Semester Supplementary Examinations, April - 2021**  
**COMPUTER NETWORKS**

(Common to Computer Science and Engineering, Information Technology)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
 2. Answer **ALL** the question in **Part-A**  
 3. Answer any **FOUR** Questions from **Part-B**
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**PART-A****(14 Marks)**

1. a) What is the difference between LAN and WAN? [2M]
- b) What is the difference between Band pass and Pass band? [2M]
- c) What is Piggybacking? [2M]
- d) What is Fast Ethernet? [3M]
- e) What is Congestion Control? What are the types of Congestion control Methods? [3M]
- f) What are the responsibilities of Transport Layer? [2M]

**PART-B****(56 Marks)**

2. a) Explain OSI Reference Model in detail. [7M]
- b) What is a Computer Network? Classify Computer Networks. Explain them briefly. [7M]
3. a) What is Multiplexing? Explain types of Multiplexing. [7M]
- b) What is Error Detection and correction? Explain. [7M]
4. a) What is Redundancy? What are its types? Explain CRC. [7M]
- b) What is HDLC? Explain the frame format in HDLC with types. [7M]
5. a) Explain how Slotted Aloha solves the problem of channel Allocation? [7M]
- b) Differentiate between Static and Dynamic Channel Allocation schemes. [7M]
6. a) Explain about Store and Forward Packet Switching. [7M]
- b) Explain the Distance Vector Routing with an example. [7M]
7. a) Explain the Real Time Transport Protocol. [7M]
- b) Explain about electronic mail in detail. [7M]

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