

III B. Tech II Semester Supplementary Examinations, November - 2019
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)    Explain various modes of transmission. [2M]
- b)    What is the Maximum Data rate of a Channel? [2M]
- c)    List the differences between an uncast, multicast and broadcast address. [2M]
- d)    Explain Persistence Methods. [3M]
- e)    Explain the structure of TCP Header format. [3M]
- f)    What is Jitter Control? [2M]

**PART –B****(56 Marks)**

2.    a)    Explain different Network Topologies. [7M]
- b)    What are the different applications of WAN and MAN? Explain. [7M]
3.    a)    Explain different methods to convert data from Digital to Analog. [7M]
- b)    Explain the advantages of TDM and CDM. [7M]
4.    a)    Explain Error Correcting and Error Detecting codes. [7M]
- b)    Explain Go-Back- N ARQ protocol using Selective Repeat. [7M]
5.    a)    Explain 802.11 physical layer and protocol stack. [7M]
- b)    Explain Collision-Free Protocols. [7M]
6.    a)    Explain Link State Routing with an example. [7M]
- b)    How is the Connection - Oriented Services implemented? Explain. [7M]
7.    a)    Explain UDP Internet Transport Protocol. [7M]
- b)    Define FTP. Discuss in brief about FTP. [7M]

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