U.S.N

P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Third Semester, Master of Computer Applications (MCA)
Semester End Examination; Dec. - 2019
Computer Networks

Time: 3 hrs   *Max. Marks: 100*

Note: Answer **FIVE** full questions, selecting **ONE** full question from each unit.

UNIT -I

1 a.	What is internet? Explain the different ways of service given by an internet.	10
b.	Explain the different types of delay in packet switched networks.	10
2 a.	Define switching. List and explain the types of switching with suitable example.	10
b.	Explain TCP/IP reference model with diagram.	10

UNIT - II

3 a.	Briefly explain the principles of networks applications.	10
b.	Explain HTTP Request and Response message format.	10
4 a.	Explain file transfer in FTP.	10
b.	Explain the classes of DNS servers.	10

UNIT - III

5 a.	What is multiplexing and de-multiplexing? Explain multiplexing and Demultiplexing in connectionless.	10
b.	Explain how UDP is suited for different applications?	10
6 a.	Explain Briefly congestion control mechanism.	10
b.	Explain three way handshakes with the help of neat diagram.	10

UNIT - IV

7 a.	Explain spanning tree algorithm.	10
b.	Explain datagram network.	10
8 a.	Analyze with an example the distance vector routing algorithm.	10
b.	Discuss IPv4 packet header format.	10

UNIT - V

9 a.	Explain four different error-correcting codes.	10
b.	Briefly describe the ARP protocol.	10
10 a.	Explain the frame format of IEEE 802.11.	10
b.	Explain the elements of wireless network.	10

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