Reg. No.										

B.Tech. DEGREE EXAMINATION, NOVEMBER 2019
Seventh Semester

EC0401 – COMPUTER COMMUNICATION
(For the candidates admitted from the academic year 2007-2008 to 2012-2013)

Time: Three hours Max. Marks: 100

Answer **ALL** Questions

PART – A (10 × 2 = 20 Marks)

1. Define data communication and list out the components.
2. What is meant by peer to peer process?
3. What is the main function of network layer?
4. Define piggybacking and its usefulness.
5. What is mean by bit-stuffing?
6. What are the disadvantages of distance vector routing?
7. What kind of file types can FTP transfer?
8. Give brief explanation about UDP.
9. Give any two features of broadband ISDN.
10. Explain briefly about MIME.

PART – B (5 × 16 = 80 Marks)

11. a. Explain TDM in detail with neat sketches.

(OR)

b. What are the various network topologies available? Discuss in detail pointing their merits and demerits.

12. a. List the various layers of OSI model and describe their functions.

(OR)

b. Explain go back N ARQ and selective repeat ARQ in detail.

13. a. Explain IPV4 in detail.

(OR)

b. Consider a network using link state algorithm and consider that router A receives the following link state packets from other routers in the network.

LSP from node	Neighbour node (link cost)
B	A(4), C(8), D(15), E(6)
C	A(5), B(8), D(1), E(2)
D	B(15), C(1), E(10)
E	A(16), B(6), E(2), D(10)

Construct the network topology from this table. From the topology you have constructed, use Dijkstra's algorithm to compute the shortest path from the node A to all other nodes in the network.

14. a. Explain the responsibilities of presentation layer in detail.

(OR)

b. Draw and explain TCP and UDP headers in detail.

15. a. Write short notes on
    (i) FTP
    (ii) HTTP

(OR)

b. Explain the architecture and features of ISDN in detail.

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