CBCS SCHEME

USN | | | | | | | | | | |

15EC64

Sixth Semester B.E. Degree Examination, Jan./Feb. 2021
Computer Communication Networks

Time: 3 hrs. Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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OR

6 a. Explain classful addressing in detail. **(05 Marks)**

b. An organization is granted a block of addresses with beginning address 14.24.74.0/24. The organization needs to have 3 sub blocks of addresses to use in three subnets: one subblock of 10 addresses, one subblock of 60 addresses, and one subblock of 120 addresses. Design the subblocks. **(07 Marks)**

c. What is Bluetooth? Explain two types of Bluetooth networks. **(04 Marks)**

Module-4

7 a. Explain IPV4 Datagram format and header fields with diagrams. **(08 Marks)**

b. Explain distance vector routing along with distance vector routing algorithm for a node. **(08 Marks)**

OR

8 a. Explain ICMPV4 message formats with diagram and explain error reporting messages. **(08 Marks)**

b. What is path vector routing and explain the same? **(06 Marks)**

c. In an IPV4 packet, the value of HLEN is 5, and the value of the total length field is OX0028. How many bytes of data are being carried by this packet? **(02 Marks)**

Module-5

9 a. Explain connectionless and connection oriented protocols in transport layer. **(08 Marks)**

b. Explain Goback N protocol along with sliding window diagrams. **(08 Marks)**

OR

10 a. Explain TCP segment format along different fields. **(08 Marks)**

b. With a neat diagram, explain state transition diagram of TCP. **(08 Marks)**

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