BCA

(Please write your Exam Roll No.)

Exam Roll No. ....

END TERM EXAMINATION

FOURTH SEMESTER [BCA] MAY 2017

Paper Code: BCA-210	**Subject: Computer Networks**
Time: 3 Hours	**Maximum Marks: 75**

Note: Attempt any five questions including Q no.1 which is compulsory.
Select one question from each unit.

Q1 (a) Discuss different types of Network Models and topology. **(5)**
(b) Distinguish between FDM, TDM and WDM. **(5)**
(c) Describe three Internetworking Devices. **(5)**
(d) Discuss design responsibilities of Data Link layer of OSI Model. **(5)**
(e) What is two-node loop instability problem? Discuss its two solutions. **(5)**

UNIT-I

Q2 Describe different technical specifications of UTP, Coaxial cable and Fiber optic cable as transmission media. **(12.5)**

Q3 Discuss the following:- **(12.5)**
(a) DTE-DCE Interface
(b) Different types of Transmission Impairments.
(c) Design responsibility of transport layer in OSI model.

UNIT-II

Q4 Discuss the following w.r.t error detection and correction- **(12.5)**
(a) Redundancy
(b) Hamming Code
(c) Checksum

Q5 Discuss the following w.r.t ISDN- **(12.5)**
(a) BRI
(b) PRI
(c) Different Reference points

UNIT-III

Q6 Explain the algorithm which forms the basis for Distance vector Routing? List its advantage and disadvantages. **(12.5)**

Q7 What is Classful addressing? Discuss the role of Netid, Hostid, Mask, Subnetting and Supernetting. **(12.5)**

UNIT-IV

Q8 Discuss responsibilities of Transport layer in OSI model. Explain the three-way handshake to establish the connection. **(12.5)**

Q9 Explain the functionalities for the following:- **(12.5)**
(a) Application Layer
(b) Session Layer
(c) Presentation Layer

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