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[4757]-1087

S.E. (I.T.) (Second Semester) EXAMINATION, 2015

FOUNDATION OF COMPUTER NETWORKS

(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Answer Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if necessary.

(iv) Neat diagrams must be drawn wherever necessary.

1. (a) Distinguish between baseband transmission and broadband transmission. [4]
- (b) Explain pulse code modulation. [4]
- (c) List the line coding schemes in digital transmission. Explain Polar NRZ scheme. [4]

Or

2. (a) Explain various transmission impairments in detail. [6]
- (b) Draw and explain FDM and TDM. [6]
3. (a) Explain ISO-OSI model in detail. [8]
- (b) Write a short note on Virtual circuit networks. [5]

P.T.O.

Or

4. (a) Explain with suitable example guided transmission media and unguided transmission media. [8]
(b) Write a short note on TCP/IP protocol stack. [5]
5. (a) Discuss the concept of redundancy in error detection and correction. [8]
(b) Explain linear code block. [5]

Or

6. (a) Explain Go-back-N automatic repeat request protocol. [5]
(b) What is Checksum ? Describe in detail internet checksum method with suitable example. [8]
7. (a) Discuss CSMA/CD random access technique. How is collision avoidance achieved in the same ? [7]
(b) Explain TDMA and FDMA. [5]

Or

8. (a) Compare and contrast FDMA and CDMA in detail. [8]
(b) Explain PPP in detail. [4]