Roll No. | | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

PGDCA (2014 & Onwards) (Sem.–2)

DATA COMMUNICATION AND NETWORKS

Subject Code : PDCA-204

Paper ID : [B0153]

Time : 3 Hrs. Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

Q1 Write short notes on following :

a) Differentiate analog and digital communication.

b) Write the advantages of optical fiber optics.

c) Explain the minimum hamming distance for error detection.

d) Compare FDM with TDM.

e) What is network standardization?

f) What is the purpose of HDLC?

g) Discuss shortest path routing algorithm.

h) Define sliding window protocol.

i) What is Checksum in error detection?

j) Discuss flow control and buffering.

SECTION-B

Q2 Write a short note on Network Software.

Q3 Explain the carrier sense multiple accesses with collision detection.

Q4 Compare and contrast message switching and packet switching.

Q5 Write in short the IEEE standards 802 for LAN and WAN.

Q6 Discuss the IP address frame format. What is subnet masking?

SECTION-C

Q7 Explain the Architecture of TCP/IP Model.

Q8 Name different congestion control algorithms and write a note on any of one.

Q9 What are responsibilities of transport layer in Internet Model?