

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

PGDCA (2017 & Onwards) (Sem.-2)
DATA COMMUNICATION AND NETWORKS
Subject Code : PDCA-204
M.Code : 50513

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**1. Answer briefly :**

- a) Write the full form of CRC
- b) How you define the Data Rate of Channel?
- c) Define Modulation.
- d) Name the connection oriented protocol of the Transport Layer.
- e) Explain the advantages of Fibre Optical Cable over Coaxial Cable.
- f) Difference between TCP and UDP.
- g) Name any two routing algorithms.
- h) Define Sliding Window Protocol.
- i) Define and describe Digital Signals.
- j) Define and describe Analog Signals.

SECTION-B

2. Explain the multiplexing techniques used in the Computer Network.
3. Difference between Packet Switching .and Circuit Switching.
4. How CSMA/CD works in the data communication?
5. Discuss about the TCP connection Management in detail.
6. How Leaky Bucket Algorithm control the Network congestion?

SECTION-C

7. Explain Open System Inter Connection Model in detail.
8. What do you mean by 'Data Communication'? Explain the components of the Data Communication System.
9. Write short notes on :
 - a) IP address
 - b) Transmission Media

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.