

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc (Computer Science) (2015 & Onwards) (Sem.-2)

DATA COMMUNICATION & NETWORKS

Subject Code : MSC-204

Paper ID : [A2573]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTIONS-A, B, C & D** contains **TWO** questions each carrying **TEN** marks each and students has to attempt any **ONE** question from each **SECTION**.
2. **SECTION-E** is **COMPULSORY** consisting of **TEN** questions carrying **TWENTY** marks in all.
3. **Use of non-programmable scientific calculator is allowed.**

SECTION-A

Q1) Explain TCP/IP Model in detail.

Q2) Discuss Physical Layer transmission media.

SECTION-B

Q3) Discuss framing mechanism of data link layer.

Q4) State and explain CSMA Protocols.

SECTION-C

Q5) Discuss the need of various Congestion control Algorithms.

Q6) Elaborate Various Routing Algorithms.

SECTION-D

Q7) Explain the procedure of Establishing and Releasing Connections.

Q8) Explain Application layer protocols.

SECTION-E

Q9) Answer briefly :

- a) Explain Switching.
- b) Compare LAN, MAN, WAN.
- c) Discuss Physical layer services.
- d) Explain CSMA protocols.
- e) Explain Advantages of Coaxial optics.
- f) What are the uses of Domain name system?
- g) Explain Transmission impairment.
- h) Explain Internetworking.
- i) Discuss Error Control.
- j) Discuss HTTP.

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