

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech (IT) (Sem.-4)
DATA COMMUNICATION

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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 briefly :

- Explain in brief the term computer Network.
- What are the two interfaces provided by protocols?
- Define Error detection and correction.
- What are the responsibilities of data link layer?
- What are the responsibilities of Network Layer?
- Differentiate between Packet and frame.
- Explain the term TCP in brief.
- Explain the term Pure ALOHA in brief.
- Explain in brief about World Wide Web.
- Explain in brief the term Network Security.

SECTION-B

- Q2 Write a detailed note on Network Hardware.
- Q3 Write a detailed note on wireless transmission.
- Q4 Write a brief note on channel allocation.
- Q5 Explain in detail about transport services of transport layer.
- Q6 Write a detailed note on DNS.

SECTION-C

- Q7 Write a detailed note on seven-layer OSI architecture of ISO.
- Q8 Write a detailed note on Data Link Layer Design Issues.
- Q9 Write a detailed note on Link State Routing.

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.