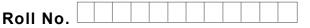


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M.Sc.(IT) (2015 Onwards) (Sem.-2) DATA COMMUNICATION AND NETWORKS Subject Code : MSIT-201 Paper ID : [72728]

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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. Any missing data may be assumed appropriately.

SECTION-A

- Q1 a) Write a short note on Multiplexing.
 - b) What are the components of digital communication?
- Q2 a) Write a short note on Network hardware.
 - b) What do you know about Wireless Networks?

SECTION-B

- Q3 Explain the role and importance of error detection and correction in data communication.
- Q4 What is the functionality of Medium Access protocol? Explain.

SECTION-C

- Q5 Name different congestion control algorithms and write a note on any of one.
- Q6 Discuss the IP address frame format. What is subnet masking?



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SECTION-D

- Q7 What are responsibilities of transport layer in Internet Model?
- Q8 a) Write a short note on HTTP.
 - b) Discuss network security issues.

SECTION-E

Q9 Answer briefly :

- a) Define Internetworking.
- b) Give the introduction to ATM.
- c) Discuss the role of RARP.
- d) Explain WAN with example.
- Ranker.com e) Write in short IEEE standard 802.4.
- f) What is the use of IPconfig?
- g) Define CSMA/CA.
- h) Differentiate Routers and Gateways.
- i) Discuss network standards.
- i) Differentiate TCP and UDP.