	Utech
Name:	
Roll No.:	A Grand (V Knowledge Stad Excellent)
Invigilator's Signature :	

CS/M.Tech (MCNT)/SEM-1/MCE-105A/2011-12 2011

COMPUTER COMMUNICATION AND NETWORKING

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any *five* questions. $5 \times 14 = 70$

- 1. What is FDM? Describe the working of FDM system. What is cross talk? 2 + 10 + 2
- 2. a) Briefly describe the elements of a circuit switched mode.
 - b) What are the advantages of circuit switching?
 - c) Compare circuit switching and packet switching. 3
 - d) How packet switching works?
- 3. a) Compare ALOHA and slotted ALOHA. 4
 - b) Describe a system implementing CSMA/CD. 8
 - c) What are the drawbacks of ALOHA?

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CS/M.Tech (MCNT)/SEM-1/MCE-105A/2011-12 4. What is HDLC and where is it used? a) b) Explain initialization and data transfer in HDLC. 10 What is SIP protocol and state its use. 5. 2 a) Write name of any 3 SIP methods with description. 2 b) Consider the case when Client A and Client B want to c) do an audio conferencing. Briefly describe the following scenario in the context of SIP. i) Client A is attempting to establish a session with Client B, but B is not signed in. Client *A* subscribed a notification service. 5 + 5ii) 5 6. Briefly describe RSVP architecture. a) 2 What is meant by reservation merging? b)

What are the possible reservation styles?

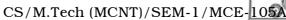
Discuss SE style reservation with example.

2

5

c)

d)





- 7. Write short notes on any *two* of the following :
 - a) TCP connection establishment
 - b) UDP
 - c) Leaky bucket algorithm
 - d) DES algorithm.

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