



RR-4077-78

M. Sc. (ICT) (Sem. I) (ATKT) Examination

March / April – 2010

Advanced Computer Networks-I

Time : 3 Hours]

[Total Marks : 70

RR - 4077

Instruction :

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.		Seat No. :	
Name of the Examination :		<input type="text"/>	
M. Sc. (ICT) (Sem. 1) (ATKT)		<input type="text"/>	
Name of the Subject :		<input type="text"/>	
Advanced Computer Networks-1		<input type="text"/>	
Subject Code No. : <input type="text"/> 4 <input type="text"/> 0 <input type="text"/> 7 <input type="text"/> 7		Section No. (1, 2,.....) : <input type="text"/> 1	
		Student's Signature	

- 1 Answer the following questions in brief : (any six) 18
- (1) What is subnetting ?
 - (2) Explain FTP protocol.
 - (3) What is SLIP ?
 - (4) What is the duty of bridge network device ?
 - (5) Explain MAC address.
 - (6) How fire wall will help in securing the data ?
 - (7) What is source quency problem ?

- 2 Explain IP packet header in detail with diagram. 7

OR

- 2 Explain various routing strategies in brief. 7

- 3 (a) Convert following IP address in binary and identify the class : (any three) 6
- (1) 161.243.201.65
 - (2) 194.123.220.10
 - (3) 128.35.65.101
 - (4) 126.101.202.115.

- (b) Explain 3 way handshaking concept of TCP. 4

RR - 4078

Instruction :

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- 4 Answer the following questions : (any **five**) **20**
- (1) Explain the difference between IPv4 and IPv6 address.
 - (2) Explain the working of Token Ring.
 - (3) Write a short note on HTTP.
 - (4) Explain the working of RARP protocol.
 - (5) At which layers of TCP/IP packet, frame, segment is residing ?
 - (6) For wireless communication, what types of devices are required?
- 5 Write short note for following concepts : (any **three**) **9**
- (1) RARP
 - (2) CSMA
 - (3) Inverse Domain
 - (4) HTTP.
- 6 The host wants to resolve the domain name "mscit.edu" **6**
and want to find the IP address. Construct the Query
message for this domain name.