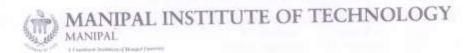
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II SEMESTER M.C.A.

END SEMESTER EXAMINATIONS, APRIL 2017

SUBJECT: ADVANCED COMPUTER NETWORKS [MCA 4202]

REVISED CREDIT SYSTEM (22/04/2017)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

Answer ALL the questions.

Missing data may be suitably assumed.

1A. Explain the use of Data Chunks in SCTP protocol.
 1B. What are the different levels of addresses used in an internet employing the TCP/IP protocols?
 1C. What are the advantages of IPV6 protocol?

2A. Explain the Network Address Translation technology with a neat diagram.
2B. How is the flow control feature implemented at receiver site in SCTP protocol?
2C. What is the need of HELLO message in OSPF?

3A. Explain the TCP segment format with a neat diagram.

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3B. Mention the solutions for two node loop instability.

3C. What do you mean by back pressure?

4A.	Explain the techniques used for transition from IPv4 to IPv6.	5
48.	Calculate the checksum for the following ICMP packet: Type: Echo Request Identifier: 15 Sequence number: 25 Message: GOOD	3
4C.	What is the difference between integrated services and differentiated services?	2
5A.	Explain the IPV4 datagram format with a neat diagram.	5
5B.	What are connection identifiers in ATM network?	3
5C.	Assume a system uses five protocol layers. If the application program creates message of 150 bytes and each layer adds a header of 20 bytes to the data unit, what is the efficiency of the system?	2

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