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Roll No.

Total No. of Pages : 02

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B.Tech. (IT) (Sem.-6th) ADVANCED INTERNET TECHNOLOGIES Subject Code : IT-302 Paper ID : [A0519]

Time : 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY.
- 2. Attempt any FOUR questions from SECTION-B.
- 3. Attempt any TWO questions from SECTION-C.

SECTION-A

 $(10 \times 2 = 20 \text{ Marks})$

- 1. Write short notes on :
 - (a) What are ephemeral ports?
 - (b) Define socket.
 - (c) Why the trailer is added at the data link layer?
 - (d) What is loopback address?
 - (e) What is maximum and minimum size of TCP header?
 - (f) What is multicast address?
 - (g) Why is UDP check sum required?
 - (h) What is subnet mask?
 - (i) What is the purpose of RARP?
 - (j) What is the purpose of DNS?

SECTION-B

 $(4 \times 5 = 20 \text{ Marks})$

- 2. Explain the meaning of various fields of Ethernet frame.
- 3. Explain the use of proxy ARP.
- 4. Explain the dynamic routing with example.

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- 5. What kind of services does TCP provide? Explain in brief.
- 6. Explain the primary and secondary DNS servers.

SECTION-C

 $(2 \times 10 = 20 \text{ Marks})$

- 7. Describe the DNS request and reply message formats and their fields.
- 8. Explain the meaning of various fields of IPv4 protocol header.
- 9. Write short notes on the following :
 - (a) FTP
 - (b) SMTP

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