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Roll No.

Total No. of Questions: 09]

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B.Tech. (Sem. - 6th)

ADVANCED INTERNET TECHNOLOGIES

SUBJECT CODE: IT - 302

<u>Paper ID</u>: [A0519]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours

Maximum 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

Q1)

 $(10 \times 2 = 20)$

- a) What do you mean by subnet mask?
- b) Define port number.
- c) Explain Simple Mail Transfer Protocol.
- d) What do you mean by UDP?
- e) What is client-server model?
- f) Why do we need protocols?
- g) Explain the concept of Serial Line IP.
- h) Why do you mean by TCP timeout?
- i) What are the advantages of using Rlogin?
- j) What is Ethernet?

Section - B

 $(4 \times 5 = 20)$

- Q2) Discuss the concept of dynamic routing.
- Q3) What is subnetting? Why it is required?

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- Q4) What are the core differences Between TCP and UDP?
- Q5) What do you mean by domain name server and how it resolves different addresses?
- Q6) Write a short note on Internet Control Message Protocol.

Section - C

 $(2 \times 10 = 20)$

- Q7) Explain the need and advantages of using IP Routing Principle.
- Q8) What are the data units at different layers of the TCP/IP protocol suite?
- Q9) Write short note on the following:
 - (a) FTP.
 - (b) ARP.

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