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Roll No.

Total No. of Questions: 09]

[Total No. of Pages: 02

Maximum Marks: 60

## **B.Tech.** (Sem. - 6<sup>th</sup>)

## ADVANCED INTERNET TECHNOLOGIES

**SUBJECT CODE**: IT - 302

Paper ID: [A0519]

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

Instruction to Candinaus.

Time: 03 Hours

- 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 is use of Reverse ARP?
- b) What is the use of flags in a TCP header?
- c) In case I open two different websites from the same computer, is my source port no. and destination port no. going to be different? Explain.
- d) What is PPP protocol used for?
- e) What is the use of Application Layer?
- f) What is tracert used for?
- g) What is rlogin used for?
- h) In case I use gmail through web interface, is SMTP also used between user client and mail server to download mails.
- i) What is the main purpose of link layer?
- j) How does a source machine know that a TCP packet needs retransmission?

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P.T.O.

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$$(4 \times 5 = 20)$$

- Q2) What is the purpose of proxy server? How does it work?
- Q3) What is the main difference between TCP & UDP protocol? Which protocol is faster and which is more reliable and why?
- Q4) Why is TCP model having a layered structure? How communication between various layers does takes place on same machine?
- Q5) Whenever a computer is switched on in a LAN, how and why does it execute ARP?
- Q6) What is routing? How does it take place? What is the difference between private and public IP addresses?

**Section - C** 

$$(2 \times 10 = 20)$$

- Q7) What is the main use of DNS? Explain how the DNS allows a large number of DNS lookups to be processed.
- Q8) How do two machines establish connection via TCP? Explain the handshaking process in detail.
- **Q9)** In case a subnet mask: 255.255.255.0 is used in a LAN, how many bits are used as network address, and in host address? What are the maximum numbers of hosts that can be accommodated in such a case?



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