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M.Tech.(ECE) (2016 Batch) EL-IV (Sem.-3) INTERNET WORKING AND INTERNET PROTOCOLS

Subject Code: MTEC-302B M.Code: 74777

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- Ql a. Explain the TCP/IP Protocol suite with a neat diagram.
 - b. What is the origin of term VOIP?
- Q2 a. Explain the phrase "TCP is a reliable transport layer protocol".
 - b. Explain Address Resolution Protocol (ARP).
- Q3 a. Explain the IPv4 datagram header with explanation of each field.
 - b. Explain the connection establishment, data transfer and connection termination processes with TCP.
- Q4 a. Compare and contrast IPv4 and IPv6 protocols briefly.
 - b. Differentiate transparent and non transparent fragmentation techniques.
- Q5 a. In the standard Ethernet, if the maximum propagation time is 25.6 μs, what is the minimum size of the frame?
 - b. Describe the concept of Piconet and Scatternet. What is a bridge? How does it differ from repeater?
- Q6 a. Describe the following terminologies w.r.t Domain Name Space:
 - i. Root Server
 - ii. Primary Server
 - iii. Secondary Server

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- b. Write short notes on:
 - i. Data encryption
 - ii. Concept of Firewall
 - iii. Denial of Service Attacks
- Q7 a. In all possible scenarios briefly explain the architecture of Electronic Mail.
 - b. Draw the header frame format of ICMP and explain all components in it.
- Q8 Write note on following:
 - a. Interrupt latency
 - b. Berral Shifter
 - c. Bit Band operations

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NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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