Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech. (ECE) (2012 to 2017) (Sem.-7,8) COMPUTER NETWORKS

Subject Code: BTCS-403 M.Code: 71909

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a) Various network topologies
- b) ALOHA
- c) What is hidden node problem in wireless networks?
- d) Carrier Sense Multiple Access
- e) ARP and RARP protocols
- f) LAN, MAN and WAN
- g) Jitter Control in congestion
- h) Broadcast Routing
- i) Virtual Private Networks
- j) Factors affecting congestion control algorithms



SCETION-B

- 2. Explain in detail the TCP/IP protocol suite.
- 3. Discuss about Selective Repeat ARQ protocol. What are its advantages over Go-Back-N ARQ?
- What is congestion control? Explain any one of the congestion prevention policies. 4.
- 5. Discuss about the various modes of working in IPSec.
- 6. What is IP address? What is its use? Also discuss about the classful IPv4 addressing.

SECTION-C

- 7. Explain how the token bucket algorithm is used for congestion control, with an example.
- 8 Explain link state routing protocol in detail. Compare it briefly with distance vector Ranker com routing protocol.
- 9. Explain briefly about:
 - a) IPv6
 - b) Virtual LANs
 - c) Node lookup in peer-to-peer networks

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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