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Total No. of Questions: 09 Total No. of Pages: 02

B. Tech. (ECE/ETE) (Sem. 7, 8) COMPUTER NETWORKS Subject Code: BTCS-403 Paper ID: A2999

Time: 3 Hrs. Max. Marks: 60

### **INSTRUCTIONS TO CANDIDATES:**

- 1. 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. Explain briefly about:

- a) Virtual LANs
- b) Bridge, Hubs and Switches
- c) Connection oriented and Connectionless services
- d) Go Back N protocol
- e) Load shedding for congestion control
- f) Shortest Path Routing
- g) Multicast Routing
- h) Virtual Private Networks
- i) IPv6 addressing
- j) What is hidden node problem in wireless networks?

### **SECTION B**

- **2.** Compare the OSI reference model with TCP/IP.
- **3.** Explain Carrier Sense Multiple Access Protocol in detail.
- **4.** What is congestion control? Explain any one of the congestion prevention policies.

| M71909 | Page 1 of 2

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- **5.** Explain distance vector routing protocol in detail?
- **6.** Identify the class of each address.
  - a) 00000001 00001011 00011001 11101111
  - b) 11000011 10000011 00010111 111111001
  - c) 14.23.120.8
  - d) 129.255.255.255
  - e) 252.5.52.117

# **SECTION C**

- **7.** Explain about leaky bucket algorithm in detail.
- **8.** What is IPSec? Discuss about its various modes of working.
- **9.** Explain about:
  - a) ARP and RARP
  - b) ALOHA

Page 2 of 2