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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ECE)(2011 Batch)/(ETE) (2011 Onwards) (Sem.-7,8)

COMPUTER NETWORKS

Subject Code : BTCS-403

M.Code : 71909

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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**Q1 Answer briefly :**

- a) Differentiate connection oriented and connectionless services.
- b) Define Intranet.
- c) What is use of bridge?
- d) Why do we need framing in networking?
- e) What causes jitter on a network?
- f) What is the purpose of ALOHA protocol?
- g) What is the purpose of load shedding?
- h) How does packet switching work?
- i) What is multicast IP routing?
- j) What is difference between IPv4 & IPv6?

SECTION-B

- Q2 What is a VLAN and what is the purpose of a VLAN?
- Q3 How HDLC protocols are used for transmitting data between network points?
- Q4 What are congestion prevention policies? Explain congestion control in virtual circuit subnets.
- Q5 Give the introduction of routing in mobile Ad Hoc network.
- Q6 How virtual private networks enable users to send and receive data across networks?

SECTION-C

- Q7 Explain the communication protocols and standards in details. What is need of TCP/IP reference model?
- Q8 Write short notes on following :
- a. Shortest Path Routing
 - b. Flooding
- Q9 What is IPSec and how it works? What are the protocols used to provide IP security?

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.