Roll No. ☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 18

B.Tech. (ECE) (2012 to 2017)   (Sem.–7)
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

Answer briefly :

1. What is OSI-1SO?

2. List different Ethernet versions.

3. What is the difference between congestion control and flow control?

4. What is the use of PPP protocol?

5. What do you understand by CDMA technology?

6. What do you understand multicasting routing?

7. What is ALOHA?

8. Differentiate between switch and hub.

9. What is subnetting?

10. Explain briefly the concept of cumulative acknowledgement in Go back by N protocol.

SECTION-B

11. Explain briefly different congestion management techniques.

12. Compare OSI Reference Model with the TCP/IP Model.

13. Discuss about the configuration and control fields of HDLC.

14. Differentiate LAN, MAN and WAN network topologies.

15. Describe a suitable congestion control algorithm with an example used for multicasting routing.

SECTION-C

16. Compare the working of Go back by N and sliding window protocols in transport layer with the help of suitable examples.

17. Compare the individual fields of IPv4 header with IPv6 header. Draw the format of an IPv6 and explain.

18. What is routing? At which layer it takes place? Explain hierarchical routing algorithm.

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.