



M 27790

Reg. No. : .....

Name : .....

II Semester M.C.A. Degree (Reg./Sup./Imp.) Examination, July 2015  
(2014 Admn.)

MCA 2C10 : COMPUTER NETWORKS

Time : 3 Hours

Max. Marks : 80

SECTION - A

Answer **any ten** questions. **Each** question carries **three** marks.

1. What are the goals of Computer Network ?
2. Mention the services of Internet.
3. What are the significant features software and hardware in networking ?
4. Mention the various protocols of data link layer.
5. What are the performance factors of sliding window protocol ?
6. Express the throughput specifications of Pure ALOHA and Slotted ALOHA.
7. How Ethernet technology differ from wireless LAN ?
8. What are the design issues of Network Layer ?
9. How MAC addresses are differ from IP addresses ?
10. Compare and contrast TCP and UDP.
11. Mention the importance of Email protocols.
12. Define Network Security.

(10×3=30)

P.T.O.



## SECTION – B

Answer **all** questions. **Each** question carries **ten** marks.

13. a) Explain briefly importance of each switching techniques in Computer Networking.

OR

b) Discuss the classification of Computer Network with various parameters.

14. a) Explain any two important data link layer protocols briefly.

OR

b) Describe the CRC technique with suitable examples.

15. a) Explain importance of IEEE 802.3 and IEEE 802.4 briefly.

OR

b) Discuss the properties, merits and demerits of Wireless LAN and Bluetooth.

16. a) Define Internetworking. Explain the various services of Internet.

OR

b) Mention the characteristic features of routing algorithm, discuss one of the routing technique briefly.

17. a) What are the design issues of the transport layer ? Explain any two of them briefly.

OR

b) List out the design issues of application layer. Explain any two of them briefly.

(5×10=50)