



K18P 0759

Reg. No. : .....

Name : .....

**Second Semester M.C.A. Degree (Regular/Supplementary/Improvement)  
Examination, July 2018  
(2014 Admission Onwards)  
MCA2C10 : COMPUTER NETWORKS**

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions. **Each** question carries **three** marks. **(10×3=30)**

1. List and explain in brief the five components of data communication system.
2. What are the features of an optical fiber ?
3. What is the role of ISPs in Internet ? Write the hierarchy of ISPs.
4. Explain simple parity check code with example.
5. Write a note on Piggybacking.
6. Write differences between Go-Back-N ARQ and Stop-and- Wait ARQ.
7. Write a short note on Bluetooth Scatternet.
8. Explain briefly : I-persistence and P-persistence strategies of CSMA.
9. What is IP Address ? What are the various classes of IP addresses ?
10. Define routing table. What are the important fields in a routing table?
11. Give the advantages of Email.
12. What is MIME ? What is its use ?

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SECTION – B

Answer **all** questions. **Each** question carries **ten** marks. (5×10=50)

13. a) Compare and contrast different types of switching techniques. 10  
OR  
b) Discuss LAN, WAN, MAN with respect to speed, coverage (area) and topology. 10
14. a) Explain Cyclic Redundancy Check in detail. Give the general design of encoder and decoder of a CRC code. 10  
OR  
b) Explain the sliding window protocol in detail. 10
15. a) Discuss the frame format for 802.3 LAN. 10  
OR  
b) Write a note on Bluetooth goals and applications. 10
16. a) Explain in detail the various TCP congestion control mechanisms. 10  
OR  
b) Write an elaborative note on Distance Vector Routing. 10
17. a) Discuss how Simple Mail Transfer Protocol (SMTP) is useful in electronic mail. 10  
OR  
b) Write an elaborative note on Symmetric key cryptography. 10
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