



K21P 0849

Reg. No. :

Name :

**I Semester M.C.A. Degree (C.B.S.S. – Regular) Examination, November 2020
(2020 Admission)**

MCA1C04 : DATA COMMUNICATION AND COMPUTER NETWORK

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **all** questions, **each** question carries **two** marks.

1. Write a note on different types of Topology. 2
2. Explain about Coaxial cable and Optical Fiber cable. 2
3. Using a diagram explain the working of Packet switching and Message switching. 2
4. Explain about Digital and Analog signals. 2
5. Explain about Bit error and Burst error. 2
6. Explain about Cyclic redundancy check. 2
7. Explain about Logical addressing. 2
8. Explain about Distance vector routing. 2
9. Write a note on UDP and SCTP. 2
10. Explain about Electronic mail. 2

(10×2=20)

PART – B

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

11. a) Explain about Categories of Networks. 8
- OR
- b) Explain about OSI model. 8

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12. a) Explain about Digital data transmission.

OR

b) Explain about various types of Multiplexing.

13. a) Briefly explain Hamming code.

OR

b) Explain about Datalink control.

14. a) Explain about different Networking and Internetworking.

OR

b) Explain about Forwarding and routing algorithms.

15. a) Explain about Process to Process delivery.

OR

b) Explain about Congestion control.

(5×8=40)

Don Bosco Arts and Science College
Angadikadavu, Kannur
lib.donbosco.ac.in



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