

SM – 630

IV Semester B.C.A. Examination, May/June 2018
(Y2K8 Scheme)
COMPUTER SCIENCE
BCA – 404 : Data Communications and Networks

Time : 3 Hours

Max. Marks : 100

Instruction : Answer all Sections.

SECTION – A

Answer any 10 questions each question carries two marks. (10×2=20)

1. Define Topology.
2. Define LAN, WAN.
3. Why DNS is used ?
4. What is use of IP-CONFIG ?
5. Define Amplitude shift keying.
6. What is parity bit ?
7. Define – SNR.
8. Define Unicast and Multicast physical address.
9. What is routing ?
10. Briefly explain the functions of a packet switch.
11. Compare virtual circuit and data gram.
12. Define congestion.

SECTION – B

Answer any 5 question. Each question carries 5 marks. (5×5=25)

13. Differentiate TCP/IP and OSI-ISO Model.
14. Differentiate between star and bus topology.

LIBRARY
Surana College
No. 16, South End Road,
SALORE - 560 004

P.T.O.

SM – 630



15. Represent 10110111 is ASK, FSK and PSK.
16. Write a note on token passing rings.
17. Write a note CDMA.
18. Explain distance vector routing (Bellman Ford routing).
19. Explain wireless LANS.
20. Write a note on channelization.

SECTION – C

Answer **any 3** questions **each** question carries **15** marks.

(15×3=45)

21. Define Network topology. Explain the merits and demerits of each. 15
22. a) Explain the evaluation of network architecture and service. 10
b) Explain pipelining. 5
23. With neat diagram explain. 15
a) Pure Aloha Protocol.
b) Slotted Aloha Protocol.
24. With neat diagram explain the working of OSI-ISO reference model. 15
25. a) Explain with a neat figure –803.3 frame format. 7
b) Compare link state-routing and distance vector routing. 8

SECTION – D

Answer only **one** question carries **10** marks.

(10×1=10)

26. a) Write short notes on internetworking. 5
b) Write short notes on FDDI. 5
27. Compare circuit switching, message switching and packet switching. 10