

22524/E 240

Reg. No.								
----------	--	--	--	--	--	--	--	--

V Semester B.C.A.2 Degree Examination, October/November 2014

(RCU – Repeaters & Regular)

(BCA 504): COMPUTER NETWORKS

Time: 3 Hours [Max. Marks: 80

Instructions: 1) All questions are **compulsory**.

2) Draw neat diagrams wherever necessary.

SECTION - A

Answer any ten, each carries 2 marks:

 $(10 \times 2 = 20)$

- 1. What do you mean by Computer Networks?
- 2. What is protocol? Give examples.
- 3. What are 10base-T and 10base5?
- 4. Define TDM and FDM.
- 5. What is Flow Control?
- 6. What is Channel Allocation? Write its types.
- 7. Mention two differences between Pure ALOHA and slotted ALOHA.
- 8. Define Virtual circuit subnet and Datagram subnet.
- 9. What do you mean by Routing?
- 10. What is Quality of Service?
- 11. What is Internetworking?
- 12. What is DNS? Mention any two generic domains.

1 **P.T.O.**

22524/E 240



SECTION - B

Answer any six, each carries 5 marks:

 $(6 \times 5 = 30)$

- 13. What is Switching? Write any four differences between Packet Switching and Circuit Switching.
- 14. Explain Hamming code for Error correction.
- 15. What are CSMA protocols? Explain CSMA/CD.
- 16. Explain Token Bus.
- 17. Explain shortest Path Routing Algorithm.
- 18. With a neat diagram explain IPv4 Header.
- 19. What is Three-Way Handshake? Explain.
- 20. In general terms explain WWW.

SECTION - C

Answer any three, each carries 10 marks:

 $(3 \times 10 = 30)$

- 21. Write the comparison between OSI and TCP/IP reference models.
- 22. Explain the following:
 - (a) Unrestricted simplex protocol
 - (b) Simplex stop and wait protocol.
- 23. Compare 802.3, 802.4 and 802.5.
- 24. Explain the following congestion control algorithms:
 - (a) Leaky Bucket Algorithm
 - (b) Token Bucket Algorithm
- 25. Write short notes:
 - (a) TCP
 - (b) UDP
