

15U633

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Name:.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2018

(CUCBCSS - UG)

CC15U BCS6 B14 - COMPUTER NETWORKS

Computer Science - Core Course

(2015 Admission)

Time: Three Hours

Maximum: 80 Marks

Part A

Answer *all* questions. Each question carries 1 mark.

1. Which topology covers security, robust and eliminating traffic factor?
2. TCP stands for
3. layer is responsible for source to destination delivery of entire message in OSI reference model.
4. is used for error detection and correction.
5. What is the size of a MAC address?
6. DHCP stands for
7. Which layer is the network support layer in OSI Reference model?
8. media is used for broad band local network.
9. Encrypted message is referred as.....
10. multiplexing technique transmits digital signals.

(10 x 1 = 10 Marks)

Part B

Answer *all* questions. Each question carries 2 marks.

11. Define cryptography.
12. What is an IP address?
13. What are transposition ciphers?
14. Define checksum.
15. What is POP ?

(5 x 2 = 10 Marks)

Part C

Answer any *five* questions. Each question carries 4 marks.

16. Differentiate VRC and LRC.
17. Which are different Types of errors?
18. How you will setup a LAN with more than two systems ?
19. What are the protocols of Transport layer in OSI model ?

20. Explain Dijkstras Algorithm.
21. Explain DNS with example.
22. Explain about Network Information Service.
23. Explain error correction and detection methods.

(5 x 4 = 20 Marks)

Part D

Answer any *five* questions. Each question carries 8 marks.

24. Explain OSI reference model with the help of a neat diagram.
25. Explain various random access protocols in detail.
26. Explain encryption techniques.
27. Explain routing Algorithms.
28. Discuss open loop and closed loop congestion control.
29. Draw appropriate figure and explain IPv4 and IPv6.
30. Which are the different types of topologies?
31. Describe briefly the access method used by Ethernet including the way it handles collisions.

(5 x 8 = 40 Marks)
