

C 80174

(Pages : 2)

Name.....

Reg. No.....

SIXTH SEMESTER B.A./B.Sc. DEGREE EXAMINATION, MARCH 2020

(CUCBCSS—UG)

Computer Science

BCS 6B 14—COMPUTER NETWORKS

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

Answer all questions.
Each question carries 1 mark.

1. _____ is the protocol suite for the current Internet.
2. A _____ is a set of rules that governs data communication.
3. The hamming distance between equal codewords is _____.
4. ARQ stands for _____.
5. Which topology is used in Ethernet ?
6. The protocol data unit for the application layer in the Internet stack is _____.
7. In the IPv4 addressing format, the number of networks allowed under Class C addresses is _____.
8. Checksum is used for _____.
9. If routing information are automatically updated by routers when changes are made to network configuration are called _____.
10. The loss in signal power as light travels down the fiber is called _____.

(10 × 1 = 10 marks)

Section B (Short Answer Questions)

Answer all the questions.
Each question carries 2 marks.

11. What are the features provided by layering ?
12. What is the difference between Single bit error and Burst error ?
13. What are the functions of MAC ?

Turn over

14. Define subnetting.
15. What are the advantages of using UDP over TCP ?

(5 × 2 = 10 marks)

Section C (Short Essays)

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

16. Explain Pure ALOHA and slotted ALOHA.
17. Explain SNMP.
18. Differentiate between UDP and TCP.
19. Explain CSMA/CD.
20. Explain gateway and bridges.
21. Explain IEEE 802.11 in detail.
22. Explain Client/Server paradigm in detail.
23. Explain about symmetric key cryptography.

(5 × 4 = 20 marks)

Section D (Long Essays)

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

24. Explain about Bluetooth and its architecture in detail.
25. Explain Distance Vector Routing Algorithm in detail.
26. Explain about IPv4.
27. Explain about OSI layers and functions of different layers.
28. Explain UDP and its applications.
29. Explain CRC with example.
30. Explain architecture of World Wide Web.
31. Explain how files transfer from one computer to another through network.

(5 × 8 = 40 marks)