C 20518   (Pages : 2)   Name...

                                                             Reg. No....................................

SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2022

(CBCSS–UG)

B.C.A.

BCA 6B 13—COMPUTER NETWORKS

(2019 Admissions)

Time : Two Hours   Maximum : 60 Marks

Section A

Answer atleast **eight** *questions.*
Each question carries 3 marks.
All questions can be attended.
Overall ceiling 24.

1. What are the advantages of a multipoint connection over a point-to-point connection ?

2. Explain Hash function.

3. Explain Subnetting.

4. Explain different uses of UDP protocol.

5. What are the functions of FTP and TFTP ?

6. Explain the advantages of bus topology.

7. Explain about Internetworking Protocol.

8. Compare ARP and RARP.

9. Explain different component of a packet switch.

10. Explain Cryptography in detail.

11. Explain the services defined by IEEE 802.11 standard for wireless LANs.

12. What is the purpose of DHCP ?

(8 × 3 = 24 marks)

Turn over

Section B

Answer atleast **five** *questions.*
Each question carries 5 *marks.*
All questions can be attended.
Overall ceiling 25.

13. Explain responsibilities of transport layer and network layer in OSI model.

14. Explain circuit switching in detail.

15. Define random access and list protocols in this category.

16. Explain Address Mapping in detail.

17. Explain UDP in detail.

18. Give a detailed explanation about RSA Digital Signature Scheme.

19. Explain substitution and transposition method of symmetric key cipher.

$(5 \times 5 = 25$ marks)

Section C

Answer any **one** *questions.*
Each question carries 11 *marks.*

20. Give a detailed explanation about CRC.

21. Explain Link State Routing.

$(1 \times 11 = 11$ marks)