

D5BCS2202

Reg. No.....

Name:

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024

COMPUTER SCIENCE AND MATHEMATICS (DOUBLE MAIN)

GDCS5B08T: COMPUTER NETWORKS AND MOBILE COMPUTING

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20 marks)

1. List the features of LAN.
2. What is CRC?
3. Explain the term carrier sense in CSMA/CD.
4. What are routers?
5. What is congestion control?
6. Comment on inter networking.
7. Distinguish between IPv4 and IPv6.
8. What are digital signatures?
9. Differentiate between bridges and switches.
10. Define block cipher.
11. What is hard handoff and soft handoff?
12. Define multiplexing?

SECTION B: Answer the following questions. Each carries *five* marks.

(Ceiling 30 marks)

13. Differentiate between packet switching and circuit switching.
14. Give an account on the relevance of various fields in TCP header.
15. Explain link state routing.
16. What is DNS? Explain the functions of DNS.
17. Differentiate between TDMA and FDMA.
18. Explain GSM architecture.
19. Write a note on CDMA.

SECTION C: Answer any *one* question. Each question carries *ten* marks.

20. Illustrate the ISO - OSI reference model of computer network with a diagram.
21. Explain the DES encryption algorithm.

(1 × 10 = 10 Marks)