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V Semester B.C.A. Degree Examination, March - 2021 COMPUTER SCIENCE

Data Communication and Networks

(CBCS Scheme)

Time: 3 Hours

Maximum Marks: 100

Instruction to Candidates:

Answer All the Sections.

SECTION - A

Answer any **Ten** questions. Each question carries **Two** marks.

 $(10 \times 2 = 20)$

- 1. Explain the characteristics of DCN.
- 2. List the modes of data transmission.
- 3. Define PING.
- 4. Differentiate between Baseband and Broadbandtransmission.
- 5. Define guided and unguided transmission media.
- 6. What is Data rate and bit error rate.
- 7. What is Forward error correction?
- 8. What is pipelining?
- 9. Define polling?
- 10. What is Channelization?
- 11. Name the three types of physical addresses.
- 12. What is Bridge?

SECTION-B

Answe any Five questions. Each question carries Five marks.

 $(5 \times 5 = 25)$

- 13. Explain the goals of computer network.
- 14. Explain IP addressing.
- 15. Explain 2 dimensional parity check method with example.
- 16. What is Multiplexing? Explain different types of multiplexing.

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- 17. Explain wireless transmission.
- Discuss sliding window method.
- 19. Compare FDMA and TDMA.
- Differentiate between Datagram and UDP.

SECTION-C

(2)

Answe any Three questions. Each question carries Fifteen marks.

 $(3 \times 15 = 45)$

- What is switching techniques? Compare and contrast the different types of switching 21. a) techniques.
 - Explain TCP/IP model. b)
- Explain the types of polar encoding. 22. a)
 - b) Explain CRC method of error detection with an example.
- 23. a)
 - b)

Explain Go-Back-NARQ proceeds.

Explain Point-to-Point (PPP) protocot.

TBRARY Write a note on Token-ring. 24. a)

- Explain the frame structure of IEEE 802.3 MAC format. b)
- What is routing? Explain Distance Vector routing. 25. a)
 - What is Congestion? Explain Leaky Bucket Algorithm. b)

SECTION-D

Answe any One questions. Each question carries Ten marks.

 $(1 \times 10 = 10)$

- Explain OSI Reference model in detail. 26.
- 27. Write short notes on
 - HDLC. a)
 - b) **ALOHA**