

# III Semester B.C.A. Degree Examination, February/March 2024 (NEP Scheme) (Freshers and Repeaters) COMPUTER APPLICATIONS Computer Communication and Networks

Time: 2½ Hours Max. Marks: 60

Instruction: Answer all the Sections.

### SECTION - A

Answer any six questions. Each question carries 2 marks. (6x2=12)

- 1) Mention any two applications of computer networks.
- 2) What is network topology?
- 3) What is a twisted pair cable?
- 4) Define attenuation and distortion. As allow political actions sometimes and assistance as
  - 5) What is framing? What is the need for framing?
  - 6) Define switching and mention its types.
  - 7) Compute odd parity and even parity for the data 10001001.
  - 8) What is routing?
  - 9) Define DNS.

## SECTION - B

II. Answer any four questions. Each question carries 6 marks.

 $(4 \times 6 = 24)$ 

- 10) Explain multiplexing and demultiplexing.
- 11) What is Optical Fiber ? Explain with neat diagram.

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- 12) Explain sliding window protocol.
- 13) Generate CRC code for data word 100111 using the divisor 101.
- 14) Explain Go-back-N ARQ protocol.
- 15) Explain Leakey bucket algorithm.

## SECTION - C

III.	Ans	swer any three questions. Each question carrie	s 8 marks. (3×8=24	)
	16)	Compare OSI and TCP/IP network models.	Mary Roy Comment of	3
	17)	Differentiate LAN, WAN and MAN.	Liplaam krainun kiraallikuleit	3
	18)	What is switching? Explain its types with neat	diagram.	8
	19)	Explain distance vector routing with an example	e.	8
	20)	a) Explain working of SMTP.	e immorphismaterious de	4
		b) Explain elements of transport service.	La companya da	4

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