

V Semester B.C.A. Examination, November/December 2017 (CBCS Scheme) (F+R) (2016 - 17 & Onwards)

BCA - 501: DATA COMMUNICATION AND NETWORKS

Time: 3 Hours Max. Marks: 100

Instruction: Answer all the Sections.

SECTION - A

Answer any ten questions. Each question carries two marks.

 $(10 \times 2 = 20)$

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- 1. Define SNR.
- 2. What is modem?
- 3. What is FTP?
- 4. What do you mean by IP utility? Give an example.
- 5. What is Network Topology? List out any two network topologies.
- 6. Define attenuation.
- 7. Write any two differences between analog and digital signals.
- 8. What is cellular telephone network?
- 9. What is reservation?
- 10. What do you mean by centralized polling?
- 11. Define Ethernet.
- 12. What is flooding?

SECTION - B

SECTION - D

Answer any five questions. Each question carries five marks. (5x5=25)

- 13. Explain packet switching.
- 14. Explain Shannon capacity.



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15. What is multiplexing? Explain TDM.

all PDV

- 16. Differentiate connectionless and connection oriented services.
- 17. Explain the structure of HDLC frames.
- 18. Illustrate CSMA.
- 19. Describe FDDI.
- 20. Write Bellman Ford Algorithm.

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SECTION-C

Ansv	ver	any three questions. Each question carries fifteen marks. (3×15=4)	5)
21.		Explain OSI reference model with a neat diagram. Illustrate polynomial code with an example.	8
22.		Describe twisted pain cable. Explain SONET.	8
23.		What is a bridge? Explain the various types of bridges. Explain FDMA, TDMA and CDMA.	7
24.		Later Control of the	7
25.			7 8
Ans	wei	rany one question. Each question carries ten marks. (1×10=1)	0)
		plain TCP/IP model with a neat diagram. ustrate polar line encoding scheme.	