

A
(21119)

Printed Pages : 3
Roll No.

(2)

B.C.A.-V Sem.

18023

B.C.A. Examination, November-2019

COMPUTER NETWORKS

(BCA-503)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from *all* sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words. $5 \times 3 = 15$

1. Which is the best topology for a local area network in a building? Justify your answer.
2. The power of a signal is 100 mW and the power of the noise is $10\mu\text{W}$; what are the values of SNR and SNR_{dB} ?
3. How frequency division multiplexing works?

4. Differentiate Bridges and Repeaters.
5. What are the services of transport layer?

Section-B

(Short Answer Questions)

Note : Answer any *two* questions out of the following three questions. Each question carries $7\frac{1}{2}$ marks. Short answer is required not exceeding 200 words.

$2 \times 7\frac{1}{2} = 15$

6. Explain any *one* of the following :
 - (a) Transmission modes
 - (b) LAN and MAN
7. How flow control and error control is done at data link layer?
8. Explain the functions of session layer.

Section-C

(Detailed Answer Questions)

Note : Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. $3 \times 15 = 45$

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9. Explain the Link state routing algorithm with an example.
10. Discuss the different unguided media with the uses.
11. How packet switching works in a network? Explain in detail.
12. Discuss different protocols at application layer.
13. What is the essence of modems? How DTE-DCE interface works.