A

(21119)

Printed Pages : 3

Roll No. ....

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.   5×3=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 10μW; what are the values of SNR and SNR_{dB} ?

3. How frequency division multiplexing works ?

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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 7½ marks. Short answer is required not exceeding 200 words.

2×7½=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.   3×15=45

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9. Explain the Link state routing algorithm with an example.

10. Discuss the different unguided medias 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.