EVN-282

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BCA (IV) Semester Examination- 2022-23

Paper-IV (BCA-404)

Data Communication & Computer Networks

Time: 2.30 Hours   Max. Marks: 70

Note : Attempt any five question. All question carry equal marks.

1. (a) What is the significance of topologies ? What are the different types of topologies ?

    7

   (b) Give advantages of a client server system using LAN over the big time sharing system.

    7

2. (a) List out the situations in which pure ALOHA and slotted ALOHA performs better. Justify your answer.   7

   (b) List out the transport layer service primitives and their meaning.   7

3. (a) Explain the principle differences between connection-oriented communication and connectionless communication.   7

   (b) Which characteristics affect he quality of sevice offered by a network ? Justify your answer with proper example.

4. (a) Explain in detail about broad band ISDN. 7

   (b) Explain the Bluetooth technology.   7

5. (a) What are the categories of CSMA ? Explain their working with advantage and disadvantag.
   https://www.sdsuvonline.com
    7

   (b) Describe the various random assignment schemes used in MAC protocol.

6. (a) Define Protocol. Write examples of route discovery protocols.   7

   (b) What is the need for bridges ? Explain the working of 802.x to 802.y bridges in detail.   7

7. Write short notes on following any four : 14

    (i)   OSI Model

    (ii)   TCP/IP Model

    (iii) Gateway

    (iv) UDP

    (v)   Switching

    (vi) Satellite.

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