B.C.A. (CBCS) RUSA VIth Semester Examination

4037

COMPUTER NETWORKS

Paper : BCA0601

Time : 3 Hours]   [Maximum Marks : 70

Note :– Attempt all questions from Part–A and *one* question each from Parts–B, C, D and E.

Part–A

1. (a) What is MAC Address ?

   (b) What is a Server ?

   (c) Give an important advantage of Star topology.

   (d) ....FDM.... multiplexing technique transmits digital signals.

   (e) What is DSL ?

   (f) What should be the flag value to indicate the last fragment of a message ?

(g) What is TELNET ?

(h) What is UDP ?

(i) What do you understand by burst error ?

(j) What is PAN ? 　　　　　　　　　　$1 \times 10 = 10$

2. (a) What are the factors that must be considered before making a choice for the topology ?

(b) Differentiate between guided and unguided media.

(c) What is the use of DNS ?

(d) What is the use of Repeater in a network ? How is it different from Hub ?

(e) How the concept of layers is used in OSI Reference Model ? 　　　　　　$4 \times 5 = 20$

Part-B 　　　　　　　　　　　　10 each

3. Discuss the advantages of computer network. Discuss network models in detail.

4. What are the uses of a computer network ? How to categorize networks according to size ? Give important characteristics of the categories.

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Part-C 　　　　　　　　　　　10 each

5. Discuss Wireless Transmission Media. Discuss advantages and disadvantages of each wireless transmission medium.

6. What is an error ? How to correct errors using FEC ?

Part-D 　　　　　　　　　　　10 each

7. Discuss the following :

(a) DSL

(b) Brouter

(c) ISDN

8. Discuss the operation of Token Ring Network. How this network is maintained ?

Part-E 　　　　　　　　　　　10 each

9. Discuss important features of TCP and UDP. Discuss the frame format of UDP.

10. (a) Differentiate between Supernetting and Subnetting.

(b) Differentiate between Classful and Classless Addressing.

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