Roll No.	
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Total No. of Questions: 10]

[Total No. of Printed Pages: 3

(1048)

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) multiplexing technique transmits digital signals.
 - (e) What is DSL?
 - (f) What should be the flag value to indicate the last fragment of a message ?

C-669

(1)

Turn Over

- (g) What is TELNET?
- (h) What is UDP?
- (i) What do you understand by burst error ?
- (i) What is PAN?

1×10≈1

- 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?

 4×5=20

Part-B

10 each

- Discuss the advantages of computer network. Discuss network models in detail.
- What are the uses of a computer network? How to categorize networks according to size? Give important characteristics of the categories.

- 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

- Discuss important features of TCP and UDP. Discuss the frame format of UDP.
- (a) Differentiate between Supernetting and Subnetting.
 - (b) Differentiate between Classful and Classless Addressing.