

Roll No. 6161680031

Total No. of Questions : 10]
(1049)

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**B.C.A. (CBCS) RUSA Vith Semester
Examination**

4395

COMPUTER NETWORKS

Paper : BCA-0601

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. (i) MAN is
- (ii) What is Server ?
- (iii) What are half duplex links ?
- (iv) What is NIC ?
- (v) Give an instance of burst error.
- (vi) ISDN is
- (vii) Give one difference between hub and bridge.

CH-721

(1)

Turn Over

(viii) Give address range of Class C IP addresses.

(ix) What do you understand by protocol ?

(x) FTP is $1 \times 10 = 10$

2. (i) Give important uses of computer networks.

(ii) How checksum error detection technique works ?

(iii) Differentiate between static and dynamic routers.

(iv) What do you understand by super-netting ?
Give an example.

(v) What is the use of TELNET ? $4 \times 5 = 20$

Part-B

10 each

3. What is the need of computer networks ? Discuss important uses and advantages of computer networks.

4. What do you understand by network topology ? Discuss the various topologies along with their advantage and disadvantages.

Part-C

10 each

5. Discuss the characteristics of Radio and Infrared transmissions.

6. What do you understand by error ? Discuss the algorithm to compute CRC to detect error. Give an example calculation of CRC.

Part-D

10 each

7. Give the diagrammatic representation of TCP/IP model. Discuss the tasks performed by each layer in the model.

8. Discuss the following :

(a) Local and Remote Bridge

(b) Active and Intelligent Hub

(c) Routers and Gateways

$3+3+4=10$

Part-E

9. Discuss the following :

(a) DNS

(b) Subnetting

(c) Physical and Logical Addressing

$3+3+4=10$

10. (a) Discuss TCP/IP Protocol suite.

(b) Discuss the working of SMTP.

5,5