

Previous Year (2019) Question Paper of Computer Networks BCA-0601



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Roll No.

Total No. of Questions : 10] [Total No. of Printed Pages : 3
(1049)

**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 1×10=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 ? 4×5=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.

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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

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Thank You

