

(ii) How many layers are there in OSI model ?

- (a) Five
- (b) Seven
- (c) Three
- (d) Four

(iii) Which of the following is not provided by the physical layer ?

- (a) Multiplexing
- (b) Encoding
- (c) Circuit Switching
- (d) Packet Switching

(iv) The parity check can be of how many types ?

- (a) Two
- (b) Single
- (c) Three
- (d) Four

(v) How many unique addresses are possible using IPV4 ?

- (a) 2^{64}
- (b) 2^{32}
- (c) 2^{128}
- (d) None of these

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(2)

(vi) A packet of IP is called as

(vii) Define routing.

(viii) The primary function of data link layer is to provide service to session layer.

(True/False)

(ix) 802.11 is a wireless protocol.

(True/False)

(x) Framing is the process of $1 \times 10 = 10$

2. (B) (i) How does a network provide cost cutting ?

(ii) Explain UDP with its applications.

(iii) What is classful addressing ?

(iv) What is star topology ? Explain.

(v) Write short note on burst error. $4 \times 5 = 20$

Part-B

$10 \times 1 = 10$

3. Explain the terms LAN, MAN and WAN. Discuss the difference among them.

4. What is computer network ? What are its main components ?

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(3)

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Part-C 10×1=10

5. What is hamming code ? Explain the procedure to correct the data using hamming code with example.
6. What is transmission media ? Explain the working of twisted pair cables with advantages and disadvantages.

Part-D 10×1=10

7. What is network switch ? What are the different types of network switches and how can you choose the right ones ?
8. Explain Ethernet with its operation, frame format, cabling and components.

Part-E 10×1=10

9. What is Internet Architecture Board ? What is the main purpose of IAB ?
10. Explain various TCP/IP services protocol in detail.

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(4)

Roll No.

Total No. of Questions : 10] [Total No. of Printed Pages : 4
(2034)

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

3778

COMPUTER NETWORKS

Paper : BCA-0601

Time : 3 Hours] [Maximum Marks : 70

Note :- Attempt five questions in all, selecting one question from each Part. Part-A is compulsory.

Part-A

(Compulsory Question)

1. (A) Do as directed :

- (i) Which of the following topology is suitable for networks having hierarchical flow of data ?

- (a) Ring
- (b) Star
- (c) Tree
- (d) Bus

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(1)

Turn Over