

**Monthly Test – June 2019**

**Computer Science**

**Class: XII Marks :50**

**Date: 26-06-‘19 Time : 1hrs**

**Section - A**

**I. Fill in the blanks. 5X1=5**

1. \_\_\_\_\_\_\_\_\_\_\_ is the client / server software program.

2. The term \_\_\_\_\_\_ refers to the computers that are attached to the computers and seeking to share the resource.

3. \_\_\_\_\_\_\_\_\_ helps a group of networks users to use a modem to transmit long distance messages.

4. The \_\_\_\_\_\_\_\_ is the medium used to carry information or data from one point to another.

5. \_\_\_\_\_ is the unit of measurement for the information carrying capacity of a communication channel.

**Section - B**

**I. Answer the following**

1. What is computer network. **(2)**

2. Differentiate between Bus Topology and Star Topology of Networks.

What are the advantages and disadvantages of Star over Bus Topology ? **(3)**

3. Define the following **(4)**

(i) Hacker (ii) Cracker (iii) Operator (iv) Network Admin

4. Differentiate between Radio Link and Microwave in context of wireless communication technologies.

**(2)**

5. What are the different types of transmission media? Explain in detail. **(6)**

6. Give the comparison between the Guided media. **(3)**

7. Explain the types of network. **(4)**

8. What is Network Topology? Explain the types of topologies. **(6)**

9. Define the following **(6)**

(i) Modem (ii) RJ-45 (iii)Hub (iv)Switch (v)Repeater (vi)Bridge



**Monthly Test – June 2019**

**Computer Science**

**Class: XI Marks :50**

**Date: 24-06-‘19 Time : 1hrs**

**Section - A**

**I. Fill in the blanks. 5X1=5**

1. \_\_\_\_\_\_\_\_\_\_\_ is the client / server software program.

2. The term \_\_\_\_\_\_ refers to the computers that are attached to the computers and seeking to share the resource.

3. \_\_\_\_\_\_\_\_\_ helps a group of networks users to use a modem to transmit long distance messages.

4. The \_\_\_\_\_\_\_\_ is the medium used to carry information or data from one point to another.

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**Section - B**

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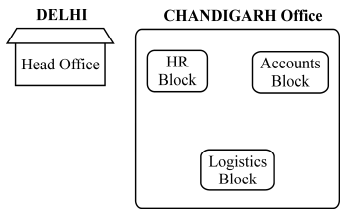
9. Define the following **(6)**

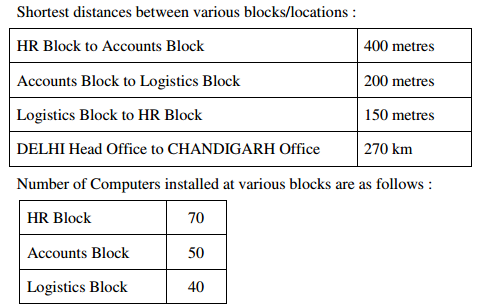
(i) Modem (ii) RJ-45 (iii)Hub (iv)Switch (v)Repeater (vi)Bridge

10. Define the following

(i)HTTP (ii)FTP (iii)TCP/IP (iv)SLIP (v)PPP **(5)**

11. Hi Speed Technologies Ltd. is a Delhi based organization which is expanding its office setup to Chandigarh. At Chandigarh office campus, they are planning to have 3 different blocks for HR, Accounts and Logistics related work. Each block has number of computers, which are required to be connected in a network for communication, data and resource sharing. As a network consultant, you have to suggest the best network related solutions for them for issues/problems raised in (i) to (iv), keeping in mind the distances between various blocks / locations and other given parameters. **(4)**





(i) Suggest the most appropriate block/location to house the SERVER in the CHANDIGARH Office (out of the 3 blocks) to get the best and effective connectivity. Justify your answer. 1

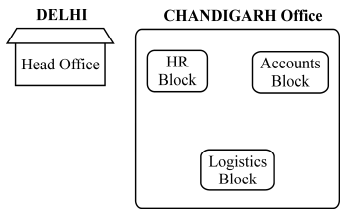
(ii) Suggest the best wired medium and draw the cable layout (Block to Block) to efficiently connect various Blocks within the CHANDIGARH office compound. 1 (iii) Suggest a device / software and its placement that would provide data security for the entire network of CHANDIGARH office. 1

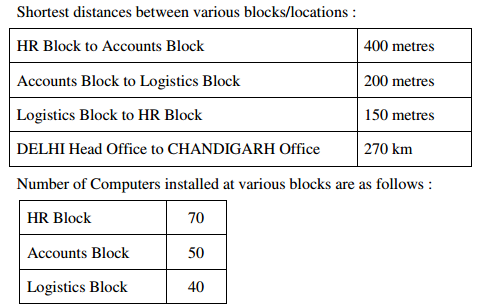
(iv) Which of the following kind of network, would it be ? 1 (a) PAN (b) WAN (c) MAN (d) LAN

10. Define the following

(i)HTTP (ii)FTP (iii)TCP/IP (iv)SLIP (v)PPP **(5)**

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(iv) Which of the following kind of network, would it be ? 1 (a) PAN (b) WAN (c) MAN (d) LAN