

**CHOITHRAM SCHOOL MANIKBAGH INDORE**

**CLASS XII Session: 2018-19**

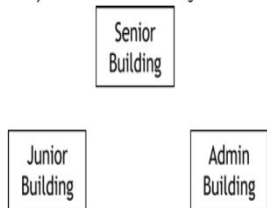
SUBJECT : Multimedia and Web Technology  
Scheduled Date.25/04/2018

ASSIGNMENT No. 1  
Submission Date. 15/06/2018

Q No.	Questions	Mark																								
1.	What is field in a database? Give an example.	1																								
2.	How firewall protect our network?	1																								
3.	What is the significance of UNICODE?	1																								
<b><u>Very Short Answer</u></b>																										
4.	Which of the following comes under cyber crime a) Photocopying a printed report b) Working on someone's computer with permission c) Operating someone's Internet Banking Account to withdraw money without permission.	2																								
5.	Name the protocol to be used in the following situations: (i) For sending and receiving e-mails (ii) For transferring computer files over a network	2																								
6.	Write two advantages of using open source software over proprietary software.	2																								
7.	What type of relationship exists between table <b>tbl_cust</b> and the table <b>tbl_order</b> ?	2																								
<pre>graph LR     tbl_cust["tbl_cust CUST_ID (PK) CUST_FNAME CUST_LNAME CUST_ADDRESS CUST_PHONE CUST_EMAIL"] --- "1" --- "∞" tbl_order["tbl_order ORDER_ID (PK) CUST_ID CAR_ID DATE"]     tbl_order --- "∞" --- "∞" tbl_product["tbl_product CAR_NO (PK) MAKE MODEL Mileage Type"]</pre>																										
<b><u>Short Answer</u></b>																										
8.	Write one advantage of Bus Topology of network. Also, illustrate how 4 computers can be connected with each other using bus topology of network.	3																								
9.	Define and identify the primary key in the following table:	3																								
Table: Stationary																										
<table border="1"><thead><tr><th>S_NO.</th><th>S_Name</th><th>S_Qty</th><th>Purchase_Date</th></tr></thead><tbody><tr><td>101</td><td>Pen</td><td>102</td><td>2011-12-12</td></tr><tr><td>102</td><td>Pencil</td><td>201</td><td>2013-02-21</td></tr><tr><td>103</td><td>Eraser</td><td>90</td><td>2011-09-09</td></tr><tr><td>109</td><td>Sharpener</td><td>90</td><td>2012-08031</td></tr><tr><td>113</td><td>Clips</td><td>900</td><td>2011-09-09</td></tr></tbody></table>			S_NO.	S_Name	S_Qty	Purchase_Date	101	Pen	102	2011-12-12	102	Pencil	201	2013-02-21	103	Eraser	90	2011-09-09	109	Sharpener	90	2012-08031	113	Clips	900	2011-09-09
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10.	Write any three points of difference between MAC address and IP Address.	3																								
<b><u>Long answer</u></b>																										
11.	Arunodaya school is setting up their new campus in Mumbai. You as a network expert	5																								

have to study the given below and answer the following questions:

Physical locations of the buildings of school:



Building to Building distances are as follows:

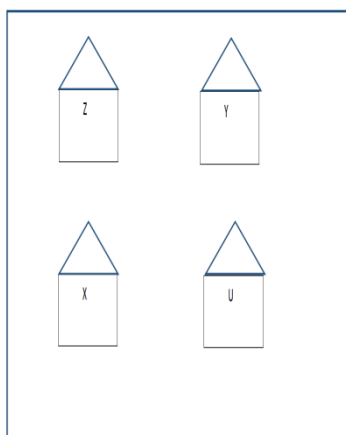
Admin to Senior	60m
Admin to Junior	120m
Junior to Senior	70m

Each of the above building has following number of computers:

Junior	60
Senior	50
Admin	120

- (i) Suggest and draw the layout for a network, with proper justification to connect all the building.
- (ii) Suggest the most appropriate building to house the server with proper justification.
- (iii) What type of network out of following is formed by connecting the computers of these buildings?
  - a. LAN
  - b. MAN
  - c. WAN
- (iv) Which wireless channel should be used to connect this school with their other branch in Dubai.
  - a. Infrared
  - b. Microwave
  - c. Satellite

12 The Cyber Skill Development Organization has set up its new Branch at Nagaland for its offices and web based activities. It has 4 Wings of buildings as shown in the diagram. 5



Center to center distance between various blocks

Wing X to Wing Z	30m
Wing Z to Wing Y	50m
Wing Y to Wing X	125m
Wing Y to Wing U	60m
Wing X to Wing U	155m
Wing Z to Wing U	110m

Number of computers

Wing X	40
Wing Z	120
Wing Y	30
Wing U	10

- (i) Suggest a most suitable cable layout of connections between the Wings and topology.
- (ii) Suggest the most suitable place (i.e. Wing) to house the server of this organization with a suitable reason with justification.
- (iii) Suggest the placement of the following devices with justification:
  1. Repeater
  2. Hub/Switch
- (iv) The organization is planning to link its head office situated in Delhi with offices at Nagaland. Suggest an economic way to connect it; company is ready to compromise on the speed of connectivity. Justify your answer.