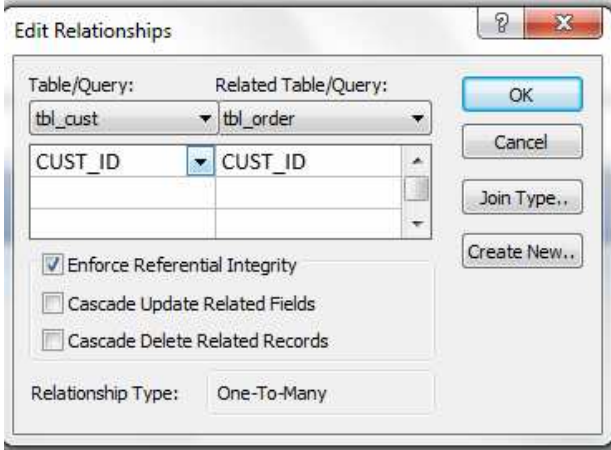


Multimedia And Web Technology(Code 067)
Marking Scheme – Set II
Class XII (2015-16)

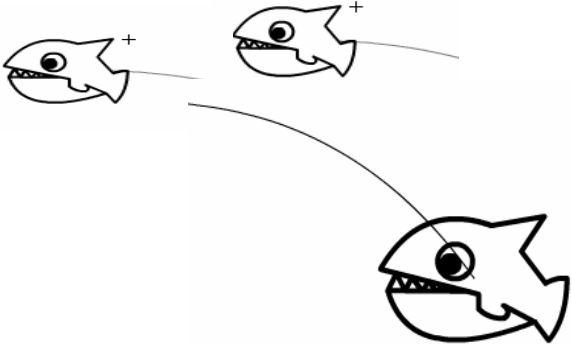
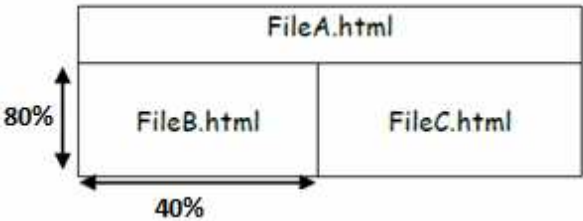
Max Marks :70

Duration : 3 Hrs.

1.	a)	What is a DBMS?	1																		
	Answer	<i>Database Management system is software that efficiently stores, retrieves and manages large amount of data.</i> (1 mark for correct answer)																			
	b)	i) A part of the Microsoft Office suite that is used to create and manage databases ii) The view in which we can define each field in the table, associated data types and their input masks.	1																		
	Answer	(i)Microsoft Access (ii)Design View (1/2 mark for each option)																			
	c)	What do you understand by "Enforce Referential Integrity" given in the following diagram	2																		
																					
	Answer	Referential Integrity (i)prevent addition of the value in cust_id in table tbl_order if the same value do not exist in tbl_cust (ii) prevent deletion of the value from cust_id in table tbl_cust if the same value exist in tbl_order (iii) prevent editing of the value of cust_id in table tbl_cust if the same value exist in tbl_order Any two points (1 mark for each option)																			
	d)	Study the following data and answer the questions given below:																			
		(i)What is the cardinality and degree of the following table tbl_cust ?	1																		
		<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="6">tbl_cust</th> </tr> <tr> <th>CUST_ID</th> <th>CUST_FNAME</th> <th>CUST_LNAME</th> <th>CUST_ADDRESS</th> <th>CUST_PHONE</th> <th>CUST_EMAIL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Gaurav</td> <td>Sharma</td> <td>143, Sanjay Gram, Sector</td> <td>8800937124</td> <td>fantasticgaurav</td> </tr> </tbody> </table>	tbl_cust						CUST_ID	CUST_FNAME	CUST_LNAME	CUST_ADDRESS	CUST_PHONE	CUST_EMAIL	1	Gaurav	Sharma	143, Sanjay Gram, Sector	8800937124	fantasticgaurav	
tbl_cust																					
CUST_ID	CUST_FNAME	CUST_LNAME	CUST_ADDRESS	CUST_PHONE	CUST_EMAIL																
1	Gaurav	Sharma	143, Sanjay Gram, Sector	8800937124	fantasticgaurav																

				-16, Chandigarh		@gmail.com		
		2	Harsh Singh	12,Officer's Colony, Sector- 60,Ludhiana	9807652719	harsh.singh@gmail.com		
		3	Srotos wini	13,Iffco Colony, Near Iffco Office , Ooty	7980678968	singh.smart@gmail.com		
	Answer	<p>(i)3 (ii)4</p> <p><i>(1/2 mark for each option)</i></p>						
		<p>(ii) What type of relationship exists between table tbl_car and the table tbl_cust?</p>						1
		<p>The diagram shows three tables: tbl_cust (primary key: CUST_ID), tbl_order (primary key: ORDER_ID), and tbl_product (primary key: CAR_NO). Relationships are: tbl_cust (1) to tbl_order (∞), and tbl_order (∞) to tbl_product (1).</p>						
	Answer	<p>Many to Many relationship exists between tables tbl_cust and tbl_product</p> <p><i>(1 mark for correct answer)</i></p>						
	(e)	<p>What is the impact of changing Frame Rate of a movie?</p>						1
	Answer	<p>(i) Increase in the frame rate of animation increases the speed of the animation (ii) Decrease in the frame rate of animation decreases the speed of the animation</p> <p><i>(1/2 mark for each option)</i></p>						
	(f)	<p>Rita is trying to make change in the movie. Though the content of layer on stage is visible but no changes can be done to it.What should she do so that she can make changes.</p>						1
	Answer	<p>She should unlock the layer</p> <p><i>(1 mark for correct answer)</i></p>						
	(g)	<p>Ms. Reena Sharma is planning to gift an animated digital card to her father on fathers day.She wants to include vector graphics, sound and video. But the size of the movie should be small even if it requires additional plug-in to play the movie. Which of the following formats are best suited for this purpose:</p> <p>(i) GIF (ii) JPEG (iii) SWF</p>						2
	Answer	<p>1. JPEG format supports only static images. 2. GIF uses bitmap format for individual frame and are less compressed than SWF. So Ms. Reena Sharma should save the movie in SWF format because it supports vector graphics, sound and video as well</p> <p>(1 mark for naming the correct format) (1 mark for the correct justification)</p>						

2.		Answer the following questions based on Macromedia Flash:							
	a)	What is an Animation? Names two types of Tweening.	2						
Answer		<p>(i) <i>Animation is the process of creating false impression of motion and shape changes by the fast display of a sequence of static images that slightly differ from each other.</i></p> <p>(ii) <i>Motion tweening ,shape tweening</i> (1 mark for correct definition) (1/2 mark for each correct tweening option)</p>							
	b)	Explain the term stacking order of layers	2						
Answer		<p><i>The stacking order of objects determines how they appear when they overlap.</i></p> <p>(i) <i>In a single layer, Flash stacks objects in the order in which they are created, placing the most recently created object at the top of the stack.</i></p> <p>(ii) <i>Multiple Layers also affect the stacking order. Everything on Layer 2 appears in front of everything on Layer 1, and so on.</i></p> <p>(1 mark for each correct point)</p>							
	c)	What is a difference between Publishing and Exporting of a movie ?	2						
	d)	<table border="1" data-bbox="440 936 1433 1267"> <thead> <tr> <th data-bbox="440 936 938 969">Publishing</th> <th data-bbox="938 936 1433 969">Exporting</th> </tr> </thead> <tbody> <tr> <td data-bbox="440 969 938 1137">By default The Publish command creates the Flash Player file (SWF) and the HTML document that inserts Flash Player file into a Web browser.</td> <td data-bbox="938 969 1433 1137">Export option creates .swf file only</td> </tr> <tr> <td data-bbox="440 1137 938 1267">Flash will publish the authoring file in the selected formats, create additional files based on the selected settings</td> <td data-bbox="938 1137 1433 1267">No additional files are created</td> </tr> </tbody> </table> <p>(1 mark for each correct point of difference)</p>	Publishing	Exporting	By default The Publish command creates the Flash Player file (SWF) and the HTML document that inserts Flash Player file into a Web browser.	Export option creates .swf file only	Flash will publish the authoring file in the selected formats, create additional files based on the selected settings	No additional files are created	
Publishing	Exporting								
By default The Publish command creates the Flash Player file (SWF) and the HTML document that inserts Flash Player file into a Web browser.	Export option creates .swf file only								
Flash will publish the authoring file in the selected formats, create additional files based on the selected settings	No additional files are created								

	<p>e)</p>	<p>Consider the figure given below and do as directed:</p>  <p>The image on the right hand side shows the position and size of the Image for frame 1.</p> <p>The image on the left hand side shows the position and size of the image</p>	<p>4</p>
		<p>The following steps have to be followed to animate the given scenario:</p> <ul style="list-style-type: none"> • Select frame 1 from the timeline and drag the image of fish from library on stage on the right hand side. • Select frame 25 from the timeline and Select Insert Keyframe • Change the position and size of the bird as shown on left side • Select any frame between 1 and 25 • Select Create motion tween. • Click on Insert and select guide layer • Take pencil tool and draw the path of fish as shown • Click on previous layer and align the fish with the path at both ends • Run the movie <p>(1/2 mark for each correct step) (full marks for any other correct equivalent way for the same animation)</p>	
<p>3.</p>		<p>Answer the following questions based on HTML:</p>	
	<p>a)</p>	<p>Fill in the blanks in the HTML code to create a framed web page in the following format:</p> 	<p>2</p>
	<p>Answer</p>	<p>The required coding is :</p> <pre> <HTML> <FRAMESET ROWS = "20%,*"> <FRAME SRC = "FILEA.HTML"> <FRAMESET COLS = "40%,*"> <FRAME SRC = "FILEB.HTML"> <FRAME SRC = "FILEC.HTML"> </FRAMESET> </FRAMESET> </HTML> </pre>	

		(1/2 mark for correct cols and rows attribute) (1/2 mark each for correct src attribute)				
	b)	<p>Write the HTML code to generate a Web Page in the format given below :</p> <p>Consider the following while writing the HTML code</p> <ol style="list-style-type: none"> Title of the page should be "Save Girl Child" Link colour should be "Maroon", visited link colour should be "Red" . Heading of page is "violet" Picture used in the page is the file "savegirl.jpg" Table should have a border of width 1, border of table should be "green". Background of first row is "yellow" and of second row is "cyan" Pages linked to : <p>At the National level as "national.html" At the State level as "state.html" At the District level as "district.html"</p> <p>8. Bottom message is of size 2 is linked to email-id savegirl@abc.com</p> <p style="text-align: center;">Save girl child, educate girl child</p> <hr/> <p>Save girl child, educate girl child (Beti Bachao, Beti Padhao) is a Government of India scheme that aims to generate awareness and improving the efficiency of welfare services meant for women.</p> <p>Project Implementation</p> <ol style="list-style-type: none"> At the National level At the State level At the District level <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">The objectives of this initiative are:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Prevention of gender biased sex selective elimination</td> <td style="padding: 5px;">Ensuring survival & protection of the girl child</td> <td style="padding: 5px;">Ensuring education and participation of the girl child</td> </tr> </table> </div> <p style="text-align: center;">For Further Enquiries</p>	Prevention of gender biased sex selective elimination	Ensuring survival & protection of the girl child	Ensuring education and participation of the girl child	8
Prevention of gender biased sex selective elimination	Ensuring survival & protection of the girl child	Ensuring education and participation of the girl child				



		<pre> <html> <head> <title>Save Girl Child</title> </head> <body LINK="maroon" VLINK="red" > <h1 align="center">Save girl child, educate girl child</h1> <hr> Save girl child, educate girl child (Beti Bachao, Beti Padhao) is a Government of India scheme that aims to generate awareness and improving the efficiency of welfare services meant for women.</p> Project Implementation At the National level At the State level At the District level <table width="300" border="1" bordercolor="green" > <tr bgcolor=yellow> <td colspan=3><center>The objectives of this initiative are: </center></td> </tr> <tr bgcolor=cyan > <td width="100">Prevention of gender biased sex selective elimination</td> <td width="100">Ensuring survival protection of the girl child</td> <td width="100">Ensuring education and participation of the girl child</td> </tr> </table> <hr> <p align="center">For Further Enquiries</p> </body> </html> (1 mark for correct use of <HTML> and <BODY> tags) (1 mark for displaying heading correctly and <HR> tag) (1 mark for correct use of tag) (1 mark for correct use of tag) (1 mark for correct use of <A> tag for creating links) (2 mark making table correctly) (1 mark for correct display of bottom message) </pre>	
4.		Answer the following questions based on ASP:	

	a)	<p>Use the following script to answer the questions that follow:</p> <pre><!-- Start the script --> <% DIM A A = 10 DisplaySub Sub DisplaySub Show B = 20 response.write("Displaying "&b"
") Show END SUB SUB Show A=A+3 response.write("Showing "&a"
") END SUB %></pre> <p>(i) How many subroutines are used in the above code snippet? Name them. (ii) What will be the output of above asp code?</p>	2
Answer		<p>(i) There are 2 subroutines viz. DisplaySub and Show (ii) Showing 13 Displaying 20 Showing 16</p> <p>(1 mark for each correct answer)</p>	
	b)	Differentiate between ASP and HTML	2
	c)	<ul style="list-style-type: none"> - HTML file generates static pages, but ASP file generates dynamic pages. - When a browser sends a requests to the web server for an HTML file the server returns the file as it is to the browser, but when a browser sends a request to the web server for an ASP file, IIS passes the request to the ASP engine having a special program ASP.dll. This ASP file is processed line by line and executes the server side scripts(<% %>) in the file. Finally, the ASP file is returned to the browser as plain HTML. <p>(1 mark for each correct point of difference)</p>	
	d)	<p>Write a program to read a text file "exam.txt" and display the no. of spaces in the file. For example , if the content of the file exam.txt is</p> <p>Failure will never overtake me if my determination to succeed is strong</p> <p>Then the output of the program should be 11.</p>	3

	Answer	<pre><% set fs=CreateObject("Scripting.FileSystemObject") set f=fs.OpenTextFile("exam.txt"),1) while not f.AtEndOfStream ch=f.Read(1) if ch=" " then count=count+1 end if wend f.Close response.write(count) set f=nothing set fs=nothing %></pre> <p>½ for creating instance of file system ½ for creating instance of textstream object ½ for while wend or any equivalent loop ½ for correct if ½ for increase of count and display of count ½ for closing file</p>	
	e)	<p>Find output</p> <ol style="list-style-type: none"> Response.Write(MONTHNAME(MONTH(CDATE ("01/03/2016"))))) Response.write(ucase(mid("encouragement",3,abs(31 mod 8)))) Response.write(instr("Educate girl child" , "uc")) 	3
		<ol style="list-style-type: none"> March COURAGE 3 <p>(1 mark for each correct output)</p>	
5.		Answer the following questions based on ASP:	
	a)	What are the purpose of using the global.asa file ?	1
	Answer	<p>The Global.asa file is an optional file that can contain declarations of objects, variables, and methods that can be accessed by every page in an ASP application.</p> <p>(1 mark for correct answer)</p>	

	b)	<p>Observe the program segment given below carefully and fill the blanks marked as Line 1 of the server object and Line 2, Line 3 and Line 4 using methods of the RecordSet object for performing the required task.</p> <pre><% DIM objConn, strConn, objRS SET objConn = Server.CreateObject("ADODB.Connection") strConn = "DSN=exam" objConn.OpenstrConn SET objRS = Server._____("ADODB.RecordSet") 'Line 1 objRS.Open "Student", objConn, 2, 2 ----- 'Line 2 Move the cursor to the end of file ----- 'Line 3 to Add a new blank record objRS("AdmNo") = Request.Form("AdmNo") objRS("Name") = Request.Form("Name") _____ 'Line 4 to save the record in the database objRS.Close objConn.Close SET objRS = Nothing SET objConn = Nothing %></pre>	4
	Answer	<p>Line 1: CreateObject Line 2: Movelast Line 3: AddNew Line 4: Update (1 mark for each correct answer)</p>	
	c)	<p>Create an ASP file "advertisement.asp" to display different banner advertisement on the webpage. The ads to be displayed are stored in the file "ads.txt". The thickness of the border around the advertisement is 3 pixel.</p>	3
	Answer	<pre><% set myad=Server.Createobject("MSWC.AdRotator") myad.border=3 response.write(myad.GetAdvertisement("adrotator.txt")) %></pre> <p>(1 mark for each correct statement)</p>	
	d)	Differentiate between counter component and page counter component	1
	Answer	<ol style="list-style-type: none"> Counter component is used for creating counters that can be used to count anything e.g no. of visitors, no of times an advertisement is clicked whereas a page counter component creates a counter which count no of times a page is viewed Counter component are manually set whereas page counter component is an automatic process <p>(1 mark for any one point of difference)</p>	
	e)	Differentiate between DSN and DSN-less connection	1
		<p>DSN less connection uses a connection string that contains information about the provider, driver, data source name and path etc and is set by the developer whereas DSN (data source name connection) is the ASCII file which defines various parameters for ODBC driver e.g location and name of the data source and is configured by the administrator of the server</p> <p>(1 mark for one point of difference)</p>	

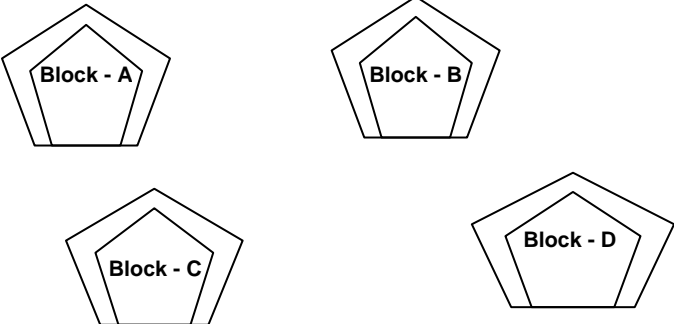
6.		Answer the following questions based on VBScript:	
	a)	Name the event that occurs when the mouse cursor is brought over an element on a web page.	1
	Answer	OnMouseOver Event (1 mark for correct answer)	
	b)	Rewrite the following code using the if. .then..else statement: Select case choice Case 1 Document.write("Monday") Case 2 Document.write("Tuesday") Case 3 Document.write("Wednesday") Case else Document.write("Sunday") End select	2
	Answer	if choice= 1 then Document.write("Monday") elseif choice= 2 then Document.write("Tuesday") elseif choice= 3 then Document.write("Wednesday") else Document.write("Sunday") End if (½ for each correct if)	
	c)	Write a function using VbScript that allows two values to be passed to it and calculates the average of those two nos. and returns the result. Use the function to calculate average of 3,5.	3
	Answer	<script language="VbScript"> function average(a,b) average=(a+b)/2 end function a=average(3,5) document.write("Average is "&a) </script> (1/2 mark for correct start and end of script tag) (1 mark for call of function and display of result) (1/2 mark for correctly writing function arguments) (1/2 mark for calculating average function and assigning to function name) (1/2 mark for end of function)	

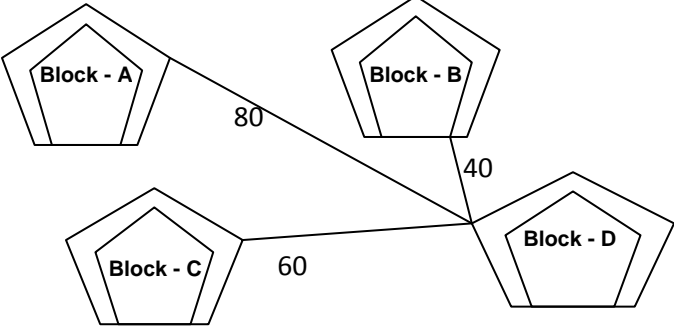
	d)	<p>Create a form that contains two textbox options and radio button with two options as shown below</p> <p>First Name <input type="text"/></p> <p>Last Name <input type="text"/></p> <p>Gender</p> <p><input type="radio"/> Male</p> <p><input type="radio"/> Female</p> <p><input type="button" value="Show Me"/></p> <p>When the user clicks on any of radio buttons, the message should be displayed according to selected gender.</p> <p>For Example if the First name entered by user is Neeraj and Last Name entered by user is Singh the following message should be displayed according to the selected Gender</p> <table border="1" data-bbox="440 831 1390 960"> <thead> <tr> <th>Gender</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td>Male</td> <td>Hello Mr.N.Singh. Welcome to our website.</td> </tr> <tr> <td>Female</td> <td>Thank You Ms N.Singh for visiting the website.</td> </tr> </tbody> </table> <p>Write the HTML code for creating the form and the embedded VBScript code for the click events of the button.</p>	Gender	Message	Male	Hello Mr.N.Singh. Welcome to our website.	Female	Thank You Ms N.Singh for visiting the website.	4
Gender	Message								
Male	Hello Mr.N.Singh. Welcome to our website.								
Female	Thank You Ms N.Singh for visiting the website.								
	Answer	<pre> <html > <head> <title>Form Processing</title> <SCRIPT LANGUAGE="VBScript"> <!-- Sub calc_OnClick Dim TheForm Set TheForm = Document.form1 If TheForm.gender(0).checked Then MsgBox "Hello Mr. "& left(Theform.fname.value,1) & ". "& Theform.lname.value & ". Welcome to our website." ElseIf TheForm.gender(1).checked Then MsgBox "Thank You Ms. "& left(Theform.fname.value,1) & ". "& Theform.lname.value & " for visiting the website." End If End Sub --> </SCRIPT> </head> </pre>							

		<pre> <body> <form action="" name="form1"> <p>First Name <input name="fname" type="text" >

 Last Name <input name="lname" type="text" >

 Gender
 <input name="gender" type="radio" value="male" > Male
 <input name="gender" type="radio" value="female" > Female</p> <p> <label> <input type="button" name="calc" value="Show Me" > </label>
 </p> </form> </body> </html> </pre> <p> <i>(1/2 mark for correct declaration, usage of onClick event and end of subroutine)</i> <i>(1 mark for correct if statements)</i> <i>(1/2 mark for Display after character extraction)</i> <i>(1/2 mark for correct use of <FORM> tag)</i> <i>(1/2 mark for correctly coding text box)</i> <i>(1 mark for correctly coding radio buttons)</i> </p>							
7.		Answer the following questions based on Communication and network concepts							
	a)	The doctors in the same room have connected their Palm Tops using Bluetooth for exchanging views about a patient. Out of the following what kind of network they have formed? LAN, MAN, PAN, WAN	1						
	Answer	PAN (1 mark for correct answer)							
	b)	Differentiate between Propriety and Open Source Software .	2						
	Answer	<table border="1"> <thead> <tr> <th>Propriety Software</th> <th>Open Source Software</th> </tr> </thead> <tbody> <tr> <td>Restriction on copying and using it</td> <td>No restriction on copying and using it</td> </tr> <tr> <td>Cannot be modified and redistributed without proprietor permission</td> <td>Canbe modified and redistributed .</td> </tr> </tbody> </table> <p>(1 mark for each point of difference)</p>	Propriety Software	Open Source Software	Restriction on copying and using it	No restriction on copying and using it	Cannot be modified and redistributed without proprietor permission	Canbe modified and redistributed .	
Propriety Software	Open Source Software								
Restriction on copying and using it	No restriction on copying and using it								
Cannot be modified and redistributed without proprietor permission	Canbe modified and redistributed .								
	c)	Monica is interested in transferring few Songs from her mobile phone to Sangeeta's mobile phone. Suggest two suitable wireless options she may opt for to do the same.	1						

	Answer	(i) Bluetooth (ii) Wifi (1/2 mark for each correct answer)																					
	d)	Give the full form of (i)FTP (ii)HTTP	1																				
	Answer	(i)File Transfer Protocol (ii)Hyper Text Transfer protocol (1/2 mark for each correct answer)																					
	e)	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.	1																				
	Answer	Operating Someone's Internet Banking Account to withdraw money. (1 mark for correct answer)																					
	d)	<p>The Tanga Flavours Pvt. Ltd. has set up its new centre at Karnatka for its office and web based activities, it has 4 blocks of buildings as shown in the diagram below :</p>  <p>The distances between the different blocks are given below :</p> <table style="margin-left: 40px;"> <tr> <td>Block A to Block B</td> <td>70 m</td> </tr> <tr> <td>Block B to Block C</td> <td>180 m</td> </tr> <tr> <td>Block C to Block D</td> <td>60 m</td> </tr> <tr> <td>Block A to Block D</td> <td>80 m</td> </tr> <tr> <td>Block B to Block D</td> <td>40 m</td> </tr> <tr> <td>Block A to Block C</td> <td>110 m</td> </tr> </table> <p>Number of computers</p> <table style="margin-left: 40px;"> <tr> <td>Block A</td> <td>35</td> </tr> <tr> <td>Block B</td> <td>60</td> </tr> <tr> <td>Block C</td> <td>1</td> </tr> <tr> <td>Block D</td> <td>140</td> </tr> </table> <p>Answer the following questions based on the above given information :</p> <p>(i) Suggest suitable cable layout(s) for connecting the blocks. (ii) Where do you think the server should be placed and explain why ? Telephone cable</p>	Block A to Block B	70 m	Block B to Block C	180 m	Block C to Block D	60 m	Block A to Block D	80 m	Block B to Block D	40 m	Block A to Block C	110 m	Block A	35	Block B	60	Block C	1	Block D	140	4
Block A to Block B	70 m																						
Block B to Block C	180 m																						
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Block B to Block D	40 m																						
Block A to Block C	110 m																						
Block A	35																						
Block B	60																						
Block C	1																						
Block D	140																						

		<p>(iii) Which of the following communication media , will you suggest to be procured by the company for connecting to a new branch office in New Delhi for very effective and fast communication ?</p> <ul style="list-style-type: none"> ▪ Ethernet cable ▪ Optical fiber <p>(iv) Where should repeaters and hub/switch be used ?</p>	
<p>Answer (i)</p>		 <p>(1 mark for the correct layout)</p>	
<p>(ii)</p>		<p>Because BLOCK C contains the maximum number of computers therefore SERVER should be placed in BLOCK C which leads to</p> <ol style="list-style-type: none"> (i) Decreasing the cabling cost for most of the computers. (ii) Increasing the efficiency of the maximum computers in the network. <p>(1/2 mark for naming the correct block 1/2 mark for correct justification)</p>	
<p>(iii)</p>		<p>Since cost is not an issue the Optical Fibre cable is best suited</p> <p>(1 mark for the correct answer)</p>	
<p>(iv)</p>		<ol style="list-style-type: none"> (i) Switch should be installed in each block A,B and D (ii) The Repeater is not required <p>(1/2 mark for each correct answer)</p>	