MULTIMEDIA AND WEB TECHNOLOGY

Time allowed : 3 hours

Maximum Marks: 70

1

2

QUESTION PAPER CODE 89/1

1. (a) Identify the following views used to create a database in Access.

21	Field Name	Data Type	and and the			MICH PRIME NEED TO THE AREA		
8	IID	Text	Book Identification Number			ALL AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	Oe	
	NAME	Text	Book Na	me				
	PurDate	Date/Time		which the Book wa	as pur	chased	1	
8	Publish	Text	Publishe	er of the book				
	Table1	DNAME		Ppurpata		Rhiblich		
	Table1	BNAME	-	BPurDate	•	BPublish		
	BID + BO3	BNAME Action Scripting		BPurDate 10-08-20	1	are a subscription of the second		
- EN	A second to The Manual and	Addition of the state of the second	URBI	10-08-20	209	are a subscription of the second		

- (b) Illustrate the usage of foreign key with the help of an example.
- (c) Study the table WEBSITES given below and answer the following questions:

Table: WEB SITES

SITE_ID	SITE_CAT	SITE_LAUNCH	SITE_VOTES
S100	Commerce	11/11/2005	2\$000
S101	Government	10/06/2007	15000
S102	Education	07/02/2008	45000
S103	Organisation	11/10/2008	42000

- (1) Name the field which can act as the primary key in the table WEB-SITES.
- (2) Suggest the data types that should be used for each of the fields in the table WEBSITES.

2

	(d)	Expand the term MPEG. What kinds of files are stored using the MPEG format?	2
	(e)	Mention any two areas where virtual reality is being used.	2
•	Ansv	wer the following questions based on Macromedia Flash.	
	(a)	What is the use of the onion skinning feature?	1
	(b)	Name any two types of tweening.	1
	(c)	Enumerate the benefits of vector graphics over bitmap graphics.	2
	(d)	What is the use of the Publish Preview option?	2
	(e)	Observe the image given below and do as directed:	4



- The image on the left hand side shows the position of the object at frame 1.
- The image on the right side shows the position of the object at frame 25.
- Assume that the image is stored in the library by the name robot. Also note that the colour and size of the image remains the same.
- The arrow shows the path followed by the robot to reach from position at frame 1 to the position at frame 25.

Write the procedure and property settings for animating the above scenario.

3. Answer the following questions based on HTML.

2.

- (a) Name the three structural tags of HTML page and explain the usage of anyone of them.
- (b) Write the HTML code to generate the web page in the format as shown:

eGames - Mozilla Firefox		A CONTRACTOR OF THE OWNER OF THE	a share
ile <u>E</u> dit <u>V</u> iew Higtory <u>B</u> ookmarks	Iools Help		
C X D	eGames.html	→ • [G] • Google	Q
	E-GAMES		
			and f
		MANASS	and a l
	and the start of the	• 2 11 01 215	-
-GAMES is a website offering ne	w and trendy games for all age	s. Graudouse	Sec.1
and the second se	The second in the second in the second	13.59	
h an instanting the state	the state and the first		Saul I
A STREET		9 9	
Games Offered			
1. Individual Games			
= Spelling Bee = Zuma Deluxe	and the second second		R
= Zuma Deruxe = Mario	and Managarahabarthata ba		
2. Group Games		的。自己的 建苯基苯基基基基基基	
o. Chess		ALL BATTAR	
o Billiards	Section and the sector	Control and the state	and and
o Snooker	And the second states of the second states and		24
ou can also buy CDs of following		All the second second second	
WHEN PERSON STATE	PRICE LIST		
	Game Name Price	- A PRINT AND APRIL	14
	Game Name Frice	and the second second	AL AL
	Spelling Bee Rs. 200		A set
A STAN PERMIT	Billiards Rs. 300		Real Providence
	punards IKS. 300		
A CALLER MANAGER	Snooker Rs. 400	5	
			家族
A MARSHER MARSHER	LINK	And The service starts	No. of the other
Standing .	DETAILS OF THE GAM	FS	- Col
e i filegiste en dysteren i	DETTIES OF THE OAW		C. C

Consider the following points while writing the HTML code:

- (1) Title of the page should be "eGames",
- (2) Background colour of the page should be "Pink",
- (3) Text colour of main heading should be "red" and font should be "Arial Bold".
- (4) Image used in the page is "game 1. jpg".

	(5)	Uset	he concept of nested lists to create the given lists.	
	(6)		table should have a border of size 5 and color blue and the spacing een adjacent cells is 15 pixels.	
	(7)		bottom image (link.jpg) and the text "Details of the Games" are both to the page details.html.	
4.	Ansv	ver the	following questions based on ASP.	
	(a)	Wha	t do you understand by the term ASP engine?	1
	(b)	How meth	do you retrieve information from a form that is submitted using the post od?	1
	(c)		is the AddNew method of the Recordset object different from the ate method of Recordset object?	2
	(d)	Ident	ify the following:	
		(1)	The ASP object which provides access to methods and properties on the server.	3
		(2)	The ASP component used to display banner advertisements on a web page.	
		(3)	The method of the Recordset object that is used to move the cursor directly to the last record in the recordset.	
	(e)	Give	the output of the following statements:	3
		(1)	Response.write (NOT TRUE AND (TRUE OR FALSE))	
		(2)	Response.write(RIGHT("Let's Learn and Experiment", LEN("LEARN")))	
		(3)	Response.write«5-3)*(4/2-3))	
5.	Ansv	ver the	following questions based on ASP:	
	(a)	Expa	and the term PWS.	1
	(b)	Diffe	erentiate between Counter and Page Counter components of ASP.	2
	(c)	Predi	ict the output of the following code:	2
		<scr< td=""><td>ipt Language= "VB Script"></td><td></td></scr<>	ipt Language= "VB Script">	

Dim A, B A=1 B = 10Do While A < 5Document. Write (A + B)A=A+1B=B-2LOOP </Script> Rewrite the following code after removing errors with each correction under-(d) lined: 2 <BODY> The login name entered by the user is : <% pass = RESPONSE.QUERYSTRING ("password") %> The password is : <% if pass <> "enter" then REQUEST.WRITE (Invalid) Otherwise RESPONSE.WRITE ("Valid") end %> </BODY> Write the ASP code that will read the text file called multi.txt, and display the (e) alternate lines contained in the file. 3 Answer the following questions based on VBscript : Name the event to be used in the following situations: 2 (a)

428

6.

- (1) To perform an action when a button is clicked.
- (2) To perform an action as soon as the contents of a text box change.
- (b) Rewrite the following code using DO WHILE instead of FOR LOOP without affecting the output:

2

2

<HTML> <BODY> <SCRIPT LANGU AGE="VBSCRIPT"> DIM Num, Flag Flag = 0Num = 10FORA = 2 TO Num/2Flag = Flag + 1NEXT </SCRIPT> </BODY> </HTML> Point out the errors in the following code and rewrite the code with the corrections underlined: <HTML> <BODY> <SCRIPT = "VB SCRIPT"> DIM A, B, C, Count A = 0B = 1FOR Count = 3 TO 6 INCREASE 1 C = A + Bdocument. Write (C)

(c)

A = B B = C LOOP </SCRIPT="VBSCRIPT"> </BODY> </HTML>

(d) Write the HTML code for creating the form shown below:

First Number	
Second Number	
Divisible	
Chec	k Divisibility

Write the embedded VBscript code for the click event of the 'Check Divisibility' button such that it displays 1 if the First Number (number input in the first text box) is divisible by the Second Number (number input in the second text box) and 0 otherwise in the third text box.

For example: if the user inputs 10 and 5 in the first two text boxes, then 1 should be displayed in the third text box, on the click of the "Check Divisibility" button.

7. Answer the following questions based on the unit Web Technologies:

(a)	Define the term Firewall.	1
(b)	Expand the term FSF.	1
(c)	What are the following software used for?	
	(1) Open Office	
	(2) MySQL	2
(d)	Differentiate between Twisted pair cable and Optical fiber cable.	2
(e)	Radio City has set up its new center at Mumbai for its office and broadcasting activities. It has 4 blocks of buildings as shown in the diagram below. Answer questions (i) to (iv) in context of the following layout of the four blocks:	

RadioCity A	RadioCity B	torise price provide
Radi	oCity C	RadioCity D

Center to Center distance between various blocks.

RadioCity A to RadioCity B	60 m
RadioCity B to RadioCity C	75 m
RadioCity C to RadioCity D	175 m
RadioCity A to RadioCity D	250 m
RadioCity B to RadioCity D	100 m
RadioCity A to RadioCitv C	75 m

Number of Computers in each wing

RadioCity A	50
RadioCity B	250
RadioCity C	50
RadioCity D	100

(1) Suggest a suitable cable layout to connect all the offices and name the topology used.

1

- (2) Suggest the most suitable place to house the server with proper justification.
- (3) Where and why repeaters should be used?
- (4) If the organization needs to link this branch office to another office situated in a distant city (around 1050 Km) away where cable connection is not feasible, then suggest an economic way to connect it with reasonably high speed?

QUESTION PAPER CODE 89

1. (a) What is the degree and the cardinality of the relation EMPLOYEE given below?

EID	EName	EJoinDate	EExper	EPhone
E01	Shayamli	10/08/07	10	22222101
E02	Kushambha	19/08/07	5	22222202

TABLE: EMPLOYEE

- (b) Differentiate between design view and datasheet view with respect to a database.
- (c) Latest Hit Station Video library stores data of all available DVDs on its server in a table named HitMovies in Access. Study the relation HitMovies given below and answer the following questions:

MID	MName	Director	ReleaseDate	Releasing Company
MO1	London Dreams	Vipul Shah	10/08/09	Joshua
M02	Wake Up Sid	Ayaan Mukherjee	19/08/09	Trinayan
M03	What's Your Rashee	Ashutosh Gowariker	18/08/09	Harem
M04	Aladdin	Sujoy Ghosh	15/08/09	Chahata

TABLE: HitMovies

	(i)	Name the field which can act as the primary key in the table HitMovies.	1
	(ii)	If the Release details of the movie have to be stored in a separate table (named RELEASE), then identify any two fields from the above table which should be included in the table RELEASE.	1
	(iii)	What type of relationship exists between the table HitMovies and the newly created table RELEASE?	1
(d)	Wha	t are the advantages of Flash movie over animated GIF movie?	1
(e)	Give	the full form of BMP.	1
(f)	Writ	e a short note on SMS.	2

- 2. Answer the following questions based on Macromedia Flash:
 - (a) The normal layer lets you add content in a flash movie that moves along a straight path. Name any two types of layers which can help you to manipulate the content on a normal layer and improve the animation.(b) What is the use of dividing a movie into separate scenes?

1

1

2

2

4

8

- (c) Enumerate the benefits of frame by frame animation over tweening animation.
- (d) Differentiate between Exporting and Publishing a Flash movie.
- (e) Observe the image given below and do as directed:



- The image on the left hand side shows the position and size for frame 1.
- The image on the right side shows the position and size for frame 25.
- Assume that the images of butterfly and flower are stored in the Flash library by the name butterfly and flower respectively and the colour and size of the image remains the same.
- The curve shows the path followed by the butterfly to reach from frame 1 to frame 25.

Write the procedure and property settings for animating the above scenario.

3. Answer the following questions based on HTML :

(a)	Differentiate between <hr/> and tags.	2

(b) Write the HTML code to generate the web page in the format shown:



Consider the following points while writing the HTML code:

- (i) Title of the page should be "eCards".
- (ii) Background colour should be "Purple".

	(iv)	Imag	e used is "cards.jpg".					
	(v)		e should have a 5 pixel thick border of colour green and the spacing een cell content and border is 15 pixels.					
	(vi)	Use t	he concept of nested lists for creating the specified lists.					
	(vii)		pottom image (link.jpg) and the text "Personalize the Cards" are links to age "person.html".					
4.	Answ	Answer the following questions based on ASP:						
	(a)	How	is an ASP file different from a simple HTML file?	1				
	(b)		ch method of the RecordSet Object will you use to move the cursor tly to the first record in the record set?	1				
	(c)	How	is the Connection object different from the RecordSet object?	2				
	(d)	Ident	ify the following:	3				
		(i)	The ASP object which stores information needs for a particular user session.					
		(ii)	The ASP component used to keep track of the number of visitors who have visited the web page.					
		(iii)	The Request object collection that will be used to retrieve information submitted by the user in a form using GET method.					
	(e)	Give	the output of the following statements:	3				
		(i)	Response.write(FALSE AND NOT TRUE OR TRUE)					
		(ii)	Response.write(LEFT("With Multimedia",5) & UCASE ("Life is Fun"»					
		(iii)	Response.write((4 - 3)*(6/2 - 3))					
5.	Answ	ver the	following questions based on ASP:					
	(a)	Expa	and the term IIS.	1				
	(b)	Diffe	erentiate between AdRotator and ContentRotator components of ASP.	2				

Text style of the main heading should be "Aria! Bold" and colour should be

(iii)

red.

(c) Predict the output of the following code:

```
<Script Language="VBScript">
```

```
Dim A, B
```

A = 2

B = 20

Do While A < 6

Document.Write(A+B)

A = A + 1

 $\mathbf{B} = \mathbf{B} - \mathbf{2}$

Loop

</Script>

(d) Rewrite the following code after removing errors with each correction underlined:

<BODY>

The login name entered by the user is :

<%

```
pass = RESPONSE.QUERYSTRING ("password")
```

%>

The password is :

<%

If pass <> "enter" then

REQUEST.WRITE (Invalid)

Otherwise

```
RESPONSE.WRITE ("Valid")
```

end

%>

</BODY>

	(e)	Write the ASP code that will read the text file named friends.txt, count the number of lines in the file and then display the same.	3
6.	Ansv	wer the following questions based on VBScript :	
	(a)	Name the event to be used in the following situations:	2
		(i) To perform an action when the button gains focus.	
		(ii) To perform an action when a button is clicked.	
	(b)	Rewrite the following code using DO WHILE instead of FOR loop without affecting the output:	2
		<html></html>	
		<body></body>	
		<script language="VBScript"></td><td></td></tr><tr><td></td><td></td><td>DIM A, B, C, Count</td><td></td></tr><tr><td></td><td></td><td>A = 0</td><td></td></tr><tr><td></td><td></td><td>B = 1</td><td></td></tr><tr><td></td><td></td><td>FOR Count = 3 TO 10 STEP 2</td><td></td></tr><tr><td></td><td></td><td>C = A + B</td><td></td></tr><tr><td></td><td></td><td>Document.Write (C & " ")</td><td></td></tr><tr><td></td><td></td><td>A = B</td><td></td></tr><tr><td></td><td></td><td>B = C</td><td></td></tr><tr><td></td><td></td><td>NEXT</td><td></td></tr><tr><td></td><td></td><td></script>	
	(c)	Give the output of the following code:	2
		<html></html>	
		<body></body>	
		<script language="VBSCRIPT"></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table></script>	

DIM Num, Flag

Flag = 0

Num = 10

FOR A = 2 TO Num/2

IF Num MOD A = 0 THEN

DOCUMENT.WRITE (Num+1)

ELSE

```
DOCUMENT.WRITE (Num - 1)
```

END IF

NEXT

</SCRIPT>

</BODY>

</HTML>

(d)	Input Number			
	Check Divisibility	v by]
		Divisibil	ity Result	

Write the HTML code for creating the above displayed form. Write the embedded VB Script code for the click event of the 'Divisibility Result' button such that it displays a message box based on whether the number input in the first textbox is divisible by the number input in the second textbox according to the following criteria:

- If number is divisible then message displayed is "Wow! I belong to your family"
- If number is not divisible then message displayed is "Let's look for my friends"

4

1

1

7. Answer the following questions based on the unit Web Technologies:

(a)	a) Define the term Cyber Law.	

(b) Expand the term WLL.

- (c) What are the following software used for?
 - (i) Apache Tomcat
 - (ii) MySQL
- (d) Differentiate between Twisted pair cable and Co-axial cable.
- (e) ProActor School of Acting in Mumbai is setting up the network between its different wings. There are 4 wings named as SENIOR(S), JUNIOR(J), ADMIN(A), and HOSTEL(H).

2

2



Distance between various wings are given below:

Wing A to Wing S	100m
Wing A to Wing J	200m
Wing A to Wing H	400m
Wing S to Wing J	300m
Wing S to Wing H	100m
Wing J to Wing H	450m

Number of computers in each wing is as given below:

WingA	10
Wing S	200
Wing J	100
Wing H	50

(i)	Suggest the most suitable topology for connecting these wings.	1
(ii)	Suggest the most suitable place to house the server. Justify your choice.	1
(iii)	Where and why should repeaters be used?	1
(iv)	The second branch of the school situated in a hilly region is to be linked with its headquarters in Mumbai. Suggest the most economical way to connect it.	1
	The organization is ready to compromise on the speed of connectivity.	1

Marking Scheme — Multimedia and Web Technology

(SUB CODE -067)

General Instructions :

- I The answers given in the marking scheme are SUGGESTIVE, Examiners are requested to award marks for all alternative correct Solutions / Answers conveying the similar meaning
- I In VBScript and ASP, ignore case sensitivity for identifiers

QUESTION PAPER CODE 89/1

1. (a) Identify the following views used to create a database in Access.

A REAL PROPERTY AND ADDRESS OF TAXABLE PARTY.	eld Name		Data Type	- and and				Carriel .		1.1.1.5
BID		Text			ientificat	ion Num	ber			
BNAME		and the second data in an	The second se		Book Name Date on which the Book was purchased			_		
BPutDate		Date/Ti Text	ime				was pur	chased		+
BPUDIIsh		iext		Pubus	er of the	DOOK				
Тари	1									
II Тари В	10 -	B	NAME		BPu	rDate	-	BPut	blish	
Ш Тари В В03	n ID -	1	NAME	e 8				BPut	and the second second	
and a second	1D -	Action			1	0-08-3	2009	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ll	

1

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Ans i) Design View

ii) Datasheet View

(1/2 mark for naming each view correctly)

- (b) Illustrate the usage of foreign key with the help of an example.
- Ans Foreign key is an attribute of one relation whose values are required to match those of the primary key of some other relation. The foreign key is used to relate two or more tables. For example in the tables given below, Item code acts as a foreign key for the table Sales.

Table.ITEM		•	_	
Item Name	Price	Item Code	Values of th	is attribute
Iron	525.00	1002	match the v	alues of the
Hand Mixie	675.50	1003	primary key	of table ITEM
Table: SALES	1	L	_ ↓	
Cust No	Bill No	Sale Date	Quantity	Item Code
1432	1022	7/12/2008	2	1002

(2 marks for correctly explaining the concept with the help of an example)

NOTE:

- 1. Full marks to be awarded in case the concept is explained only with the help of an example.
- 2. 1 mark to be awarded if only the definition is given
- (c) Study the table WEBSITES given below and answer the following questions:

Table: WEB SITES

SITE_ID	SITE_CAT	SITE_LAUNCH	SITE_VOTES
S100	Commerce	11/11/2005	28000
S101	Government	10/06/2007	15000
S102	Education	07/02/2008	45000
S103	Organisation	11/10/2008	42000

(1) Name the field which can act as the primary key in the table WEB-SITES.

1

2

- (2) Suggest the data types that should be used for each of the fields in the table WEBSITES.
- Ans (1) SITE_ID can act as the primary key

(1 mark for correctly naming the field)

(2) SITE_ID - Text

SITE_CAT - Text

SITE_LAUNCH - Date/Time

SITE_VOTES - Numeric

(¹/₂ mark for correctly naming the data type for each field)

(d) Expand the term MPEG. What kinds of files are stored using the MPEG format?

2

2

1

Ans MPEG stands for Moving Picture Experts Group OR Motion Picture Experts Group. This format is used to save movie files which cannot be further edited.

(1 mark for the correct expansion)

+ (1 mark for mentioning the correct file usage)

- (e) Mention any two areas where virtual reality is being used.
- Ans Useful applications of VR include:
 - 1. Training in a variety of areas (military, medical, equipment operation, etc.),
 - 2. Education,
 - 3. Design evaluation (virtual prototyping),
 - 4. Architectural walk-through,
 - 5. Simulation of assembly sequences and maintenance tasks,
 - 6. Assistance for the handicapped,
 - 7. Study and treatment of phobias (e.g., fear of height)
 - 8. Entertainment
 - 9. Gaming (or any other valid application)

(1 mark:each for mentioning any two areas correctly)

- 2. Answer the following questions based on Macromedia Flash.
 - (a) What is the use of the onion skinning feature?
- Ans The onion-skinning feature allows the designer to see multiple frames and how their movements relate to the current frame. When creating an animation, this feature can be a great help to see what the objects in the preceding and succeeding frames look like.

(1 mark for explaining the correct usage)

(b) Name any two types of tweening.

Ans Motion Tweening, Shape Tweening, Tint Tweening

(¹/₂ mark each for correctly naming any two types of tweening)

1

2

2

4

(c) Enumerate the benefits of vector graphics over bitmap graphics.

Ans	Vector Graphics		Bitmap Graphics	
	1.	Vector graphics are made-up of mathematical expressions	1.	Bitmap graphics are made up of colored pixels.
	2.	File sizes are usually very small.	2.	File sizes are usually very large.
	3.	The quality of Vector graphics will not be affected on re:izing.	3.	Bitmap graphics will suffer in quality if resized.

(2 marks for mentioning anyone benefit of vector graphics over bitmap graphics)

- (d) What is the use of the Publish Preview option?
- Ans The *Publish Preview* option allows one to preview the movie in a browser before publishing to see if the movie is appearing fine.

(2 marks for explaining the correct usage)

(e) Observe the image given below and do as directed:



- The image on the left hand side shows the position of the object at frame 1.
- I The image on the right side shows the position of the object at frame 25.
- Assume that the image is stored in the library by the name robot. Also note that the colour and size of the image remains the same.

The arrow shows the path followed by the robot to reach from position at frame 1 to the position at frame 25.

Write the procedure and property settings for animating the above scenario.

- Ans The following steps have to be followed to animate the given scenario:
 - Select frame 1 .from the timeline and drag the robot image on the stage from the library.
 - Using the arrow tool, select the image and place it on the left hand side.
 - Select frame 25 from the timeline and Select Insert Keyframe
 - Using the arrow tool, select the image and position it on the right hand side of the stage at the desired location
 - Select all frames from 1 to 25.
 - Right click the mouse button and Select Create Motion Tween.
 - I Select the layer containing the motion tween. Right click and select Add Motion Guide.
 - Using the pencil tool, draw the path of motton as shown in the image. OR Any other equivalent method.

 $(\frac{1}{2} marks for each step)$

3. Answer the following questions based on HTML.

(a) Name the three structural tags of HTML page and explain the usage of anyone of them.

2

Ans Three structural tags are: <HTML>, <HEAD> and <BODY>

Usage:

<HTML> - marks the beginning and the end of the html file

<HEAD> - contains, information about initial load parameters of the webpage like title, scripts, style definitions and document descriptions

<BODY> - contains the visible content of the webpage

(¹/₂ mark each for naming the three structural tags)

 $+(\frac{1}{2} mark for correctly explaining the usage of anyone of them)$

(b) Write the HTML code to generate the web page in the format as shown:

8

Consider the following points while writing the HTML code:

- (1) Title of the page should be "eGames",
- (2) Background colour of the page should be "Pink",
- (3) Text colour of main heading should be "red" and font should be "Arial Bold".
- (4) Image used in the page is "game 1. jpg".
- (5) Use the concept of nested lists to create the given lists.
- (6) The table should have a border of size 5 and color blue and the spacing between adjacent cells is 15 pixels.
- (7) The bottom image (link.jpg) and the text "Details of the Games" are both links' to the page details.html.



Ans <HTML>

```
<HEAD><TITLE'>eGames</TITLE></HEAD>
```

```
<BODY BGCOLOR="PINK">
```


<H2 ALIGN = CENTER> E-GAMES </H2>

e-GAMES is a website offering new and trendy games for all ages.


```
<OL><FONT FACE = "ARIAL" SIZE = +1><B>Games Offered </B>
```

Individual Games

<UL TYPE="square">

Spelling Bee

Zuma Deluxe

Mario

Group Games

```
<UL TYPE="circle">
```

Chess

Billiards

Snooker

You can also buy CDs of following games through our site

<TABLE ALIGN=CENTER BORDER=5 BORDERCOLOR="Btue"

CELLSPACING=15>

<CAP'TION> PRICE LIST </CAPTION>

<TR>

<TH> Game Name </TH>

<TH>Price </TH>

<TR>

<TD> Spelling Bee

<TD>Rs. 200

<TR>

- <TD>Billiards
- <TD>Rs. 300

<TR>

<TD>Snooker

<TD>Rs. 400

</TABLE>

<CENTER>

 DETAILS OF THE GAMES

</BODY>

</HTML>

(1/2 mark for correct use of <HTML> and <BODY> tags)

+ ($\frac{1}{2}$ mark for correct use of <TITLE> tag)

+ ($\frac{1}{2}$ mark for body background colour)

+ ($\frac{1}{2}$ mark for mentioning the correct font type and color)

+ (¹/₂ mark for displaying the heading correctly in center)

+ $(1\frac{1}{2} mark for correctly creating the nested list (<math>\frac{1}{2} mark for each list$))

+ (¹/₂ mark for making table border 5 pixel thick with border color blue)

+ ($\frac{1}{2}$ mark for making table cellspacing as 15 pixels)

+ ($\frac{1}{2}$ mark for giving table <*CAPTION*>)

+ (1 mark for correctly creating the table using $\langle TR \rangle$ and $\langle TD \rangle$ tags)

	$+ (\frac{1}{2})$	nark	t for displaying the links in center)	
	+ (½	2 mark	<i>x</i> each for correctly creating the link on the image and the text)	
4.	Ansv	ver the	e following questions based on ASP.	
	(a)	Wha	t do you understand by the term ASP engine?	1
Ans			ngine is a special program named ASP.dll where all the server side scripts ed and converted to HTML code.	
	(1 m	ark fo	r correct explanation)	
	(b)	How meth	do you retrieve information from a form that is submitted using the post od?	1
Ans			Form collection of the Request object to retrieve the information submitted ost method.	
	(1 m	ark fo	r the correct answer)	
	(c)		v is the AddNew method of the Recordset object different from the ate method of Recordset object?	2
Ans			ew method adds a new blank record in the database whereas the Update yes the newly written record in the database permanently.	
	(2 m	arks f	or mentioning anyone correct difference between the two)	
	(d)	Ident	ify the following:	
		(1)	The ASP object which provides access to methods and properties on the server.	
		(2)	The ASP component used to display banner advertisements on a web page.	
		(3)	The method of the Recordset object that is used to move the cursor directly to the last record in the recordset.	3
Ans	1.	Serv	er Object	
	2.	Ad F	Rotator 'Component	
	3.	Mov	eLast	

(1 mark for each correct answer)

- (e) Give the output of the following statements:
 - (1) Response.write (NOT TRUE AND (TRUE OR FALSE))
 - (2) Response.write(RIGHT("Let's Learn and Experiment", LEN("LEARN")))
 - (3) Response.write«5-3)*(4/2-3))
- Ans i) False
 - ii) iment
 - iii) -2

(1 mark for each correct answer)

Note: ¹/₂ mark to be awarded for each part if the steps showing the working are correct but the final output is wrong

5. Answer the following questions based on ASP:

- (a) Expand the term PWS.
- Ans Personal Web Server

(1 mark for the correct expansion)

(b) Differentiate between Counter and Page Counter components of ASP.

Ans	Counter		Page Counter	
	i.	Counter component can be used for creating counters that can be used to count anything such as, the number of visitors to the Web site, the number of times an advertisement has been clicked etc.	i.	Counts the number of times a page has been viewed.
	ii.	The Counters component is manually set using the Set method.	ii.	Page Counter component is an automatic process.
	111.	The HTML <object> tag is used to create an instance of the Counters component in the Global.asa file.</object>	iii.	An instance of the PageCounter object is created on a page by using the Server.CreateObject method.

1

iv.	Only one instance of the Counter	iv. Any number of instances of the
	component can be created. This	page counter object can be created.
	single Counters object can create	
	any number of individual counters	
	with different names.	

2

2

(2 marks for anyone correct differentiation point)

(c) Predict the output of the following code:

```
<Script Language= "VB Script">
Dim A, B
A= 1
B = 10
Do While A < 5
Document. Write (A + B)
A=A+ 1
B=B-2
LOOP
</Script>
```



(1/2 mark for each correct number)

(d) Rewrite the following code after removing errors with each correction underlined:

<BODY>

The login name entered by the user is :

<%

pass = RESPONSE.QUERYSTRING ("password") %>

The password is :

<%

if pass <> "enter" then

REQUEST.WRITE (Invalid)

Otherwise

```
RESPONSE.WRITE ("Valid")
```

end

%>

```
</BODY>
```

Ans < BODY >

The login name entered by the user is :

<%

pass = <u>REQUEST</u>.QUERYSTRING("password") %>

The password is:

<%

```
if pass <> "enter" then
```

RESPONSE.WRITE("Invalid")

ELSE

RESPONSE.WRITE("Valid")

End IF

%>

</BODY>

(1/2 mark each for correcting any four errors)

(e) Write the ASP code that will read the text file called multi.txt, and display the alternate lines contained in the file.

3

Ans <%

Set Fobj=Server.createobject("Scripting.FilesystemObject")

Set mFile = Fobj.OpenTextFile("multi.txt")

 $Do \ while \ NOT \ mFile. At EndOf Stream$

Response.Write(mFile.ReadLine}

Response.Write ("
")

mFile.ReadLine

Loop

mFile.close

%>

- (¹/₂ mark for correctly creating the file system object)
- $+(\frac{1}{2} mark for opening the file)$
- $+(\frac{1}{2} mark for the loop)$
- $+(\frac{1}{2} mark for reading the line$
- +(*¥.z mark for displaying the line*)
- +(*Yz mark for closing the connection*)
- 6. Answer the following questions based on VBscript :
 - (a) Name the event to be used in the following situations:

2

- (1) To perform an action when a button is clicked.
- (2) To perform an action as soon as the contents of a text box change.

Ans i) OnClick

ii) OnChange

(1 mark for each correct answer)

(b) Rewrite the following code using DO WHILE instead of FOR LOOP without affecting the output:

2

<html>

<BODY>

<SCRIPT LANGU AGE="VBSCRIPT">

DIM Num, Flag

Flag = 0

Num = 10

FORA = 2 TO Num/2

Flag = Flag + 1

NEXT

</SCRIPT>

</BODY>

</HTML>

Ans <HTML>

<BODY>

<SCRIPT LANGUAGE = "VBSCRIPT">

DIM Num, Flag

Flag = 0

Num = 10

```
\underline{A=2}
```

DO WHILE A<=Num/2

Flag = Flag + 1

 $\underline{A}=\underline{A}+\underline{1}$

LOOP

</SCRIPT>

</BODY>

</HTML>

(¹/₂ mark each for writing the mentioned four underlined lines correctly)

(c) Point out the errors in the following code and rewrite the code with the corrections underlined:

2

<HTML> <BODY> <SCRIPT = "VB SCRIPT"> DIM A, B, C, Count A = 0

B = 1

FOR Count = 3 TO 6 INCREASE 1 C = A+Bdocument. Write (C) A = B B = CLOOP </SCRIPT="VBSCRIPT"> </BODY> </HTML>Ans < HTML>

<BODY>

<SCRIPT LANGUAGE="VBSCRIPT'>

DIM A, B, C, Count

A = 0

B = 1

FOR Count = 3 TO 6 <u>STEP 1</u>

C = A + B

document.Write (C)

A = B

 $\mathbf{B} = \mathbf{C}$

<u>NEXT</u>

</SCRIPT>

< 1 BODY >

</HTML>

(¹/₂ mark each for correcting the four errors)

(d) Write the HTML code for creating the form shown below:Write the embedded VBscript code for the click event of the 'Check Divisibility'

button such that it displays 1 if the First Number (number input in the first text box) is divisible by the Second Number (number input in the second text box) and 0 otherwise in the third text box.

For example: if the user inputs 10 and 5 in the first two text boxes, then 1 should be displayed in the third text box, on the click of the "Check Divisibility" button.

First Number			
Second Number			
Divisible			
Check Divisibility			

Ans <HTML>

<HEAD><TITLE>DIVISIBILTY CHECK</TITLE>

```
<SCRIPT LANGUAGE = "VBScript" >
```

SUB B1_OnClick

Dim A, B

A=FORM1.T1.VALUE

```
B = FORM1.T2.VALUE
```

IF A MOD B = 0 THEN OR IF FORM1.T1.VALUE MOD FORM1.T1.VALUE THEN

FORM1.T3.Value = 1

Else

FORM1.T3.Value = 0

END IF

END SUB

</SCRIPT>

</HEAD>

<BODY>

<FORM NAME="FORM1">

	<p>FIRST NUMBER <input name="TI" type="TEXT"/></p>	
	<p>SECOND NUMBER <input name="T2" type="TEXT"/></p>	
	<p>DIVISIBLE <input name="T3" type="TEXT"/></p>	
	<p></p>	
	<input "button"="" name="B1" type.="" value="Check Divisibility"/>	
	(1/2 mark for correct <form> tag)</form>	
	+ (¹ / ₂ mark for creating textboxes using <input/> tags)	
	+ (¹ / ₂ mark for creating button using <input/> tag)	
	+ (¹ / ₂ mark for the correct <script> tag)</th><th></th></tr><tr><th></th><th>+ ($\frac{1}{2}$ mark for associating subroutine with the button element)</th><th></th></tr><tr><th></th><th>+ (1 mark for correct conditional statement)</th><th></th></tr><tr><th></th><th>+ ($\frac{1}{2}$ mark for correctly displaying the output in the third textbox)</th><th></th></tr><tr><th>7.</th><th>Answer the following questions based on the unit Web Technologies:</th><th></th></tr><tr><th></th><th>(a) Define the term Firewall.</th><th>1</th></tr><tr><th>Ans</th><th>A computer network firewall is an electronic blocking mechanism that will not allow unauthorized intruders (people or messages) into a computer system.</th><th></th></tr><tr><th></th><th>(1 mark for the correct definition)</th><th></th></tr><tr><th></th><th>(b) Expand the term FSF.</th><th>1</th></tr><tr><th>Ans</th><th>Free Software Foundation</th><th></th></tr><tr><th></th><th>(1 mark for the correct expansion)</th><th></th></tr><tr><th></th><th>(c) What are the following software used for?</th><th></th></tr><tr><th></th><th>(1) Open Office</th><th></th></tr><tr><th></th><td>(2) MySQL</td><td>2</td></tr><tr><th></th><th></th><th></th></tr></tbody></table></script>	

- Ans i) Office Tasks like word processing, Presentation Creations, Database management etc
 - ii) Relational Database Management System

(1 mark each for mentioning the correct usage of each of the two)

2

(d) Differentiate between Twisted pair cable and Optical fiber cable.

Ans		Twisted Pair cable		Optical Fiber cable
	1.	Relatively low data transfer rate (in mbps)	1.	Very high data transfer rate (in gbps)
	2.	This type of cable is very susceptible to electromagnetic fields	2.	This type of cable is not susceptible to electromagnetic interference
	3.	Transmission takes place through electromagnetic waves	3.	Transmission takes place through light pulses
	4.	Most common application is the telephone system	4.	Most suited for LANs where high quality of facilities is required

(2 marks for anyone correct differentiation point)

(e) Radio City has set up its new center at Mumbai for its office and broadcasting activities. It has 4 blocks of buildings as shown in the diagram below. Answer questions (i) to (iv) in context of the following layout of the four blocks:

RadioCity A	RadioCity B	B	
Rad	ioCity C	RadioCity D	

Center to Center distance between various blocks.

RadioCity A to RadioCity B	60 m
RadioCity B to RadioCity C	75 m
RadioCity C to RadioCity D	175 m
RadioCity A to RadioCity D	250 m
RadioCity B to RadioCity D	100 m
RadioCity A to RadioCitv C	75 m

Number of Computers in each wing

RadioCityA	50
RadioCity B	250
RadioCity C	50
RadioCity D	100

(i) Suggest a suitable cable layout to connect all the offices and name the topology used.

1

Ans Layout 1 : Star Topolgy



OR

Layout 2: Bus Topology


($\frac{1}{2}$ mark for the correct cable layout and $\frac{1}{2}$ mark for naming the correct topology)

- (ii) Suggest the most suitable place to house the server with proper justification.
- Ans Radio City B should be the server as it has the most number of computers. ($\frac{1}{2}$ mark for naming the place and $\frac{1}{2}$ mark for the correct justification)
 - (iii) Where and why repeaters should be used?
- Ans In case of Layout 1, repeater should be placed between building Band D as the distance is more than 75 Kms.

OR

In case of Layout 2, repeaters should be placed between building C and D as the distance is more than 75 Kms.

(¹/₂ mark for naming the place and ¹/₂ mark for the correct justification)

(iv) If the organization needs to link this branch office to another office situated in a distant city (around 1050 Km) away where cable connection is not feasible, then suggest an economic way to connect it with reasonably high speed?

Ans Radio Wave OR Microwave OR TCP/IP

(1 mark for naming the correct technology)

MULTIMEDIA & WEB TECHNOLOGY

QUESTION PAPER CODE 89

EXPECTED ANSWERS/VALUE POINTS

1. (a) What is the degree and the cardinality of the relation EMPLOYEE given below?

1

1

1

1

TABLE: EMPLOYEE

EID	EName	EJoinDate	EExper	EPhone
E01	Shayamli	10/08/07	10	22222101
E02	Kushambha	19/08/07	5	22222202

Ans Degree - 5

Cardinality.-2

(¹/₂ mark each for correctly mentioning the degree and cardinality)

(b) Differentiate between design view and datasheet view with respect to a database.

Ans	Design View				Datashee	t View
						7
	1.	Allows the user to define each field, their data types, and descriptions in the table.		1.	Allows the data in the t	user to enter raw table.
	2.	The user can create an entire new table or add, delete or customize the fields in an existing table.		2.	view or oth	nn add, delete, edit, erwise work with an existing table.
	R stude	Int Table Teld Name Cata Type Teld Name Teld Teld Teld Teld Teld Fett Number Faid Properties Losup	4	student : 1 Admno V2353 E4544 V9472 V8494	a ble Name Anju Saxena Karan Sood Rohit Sòn Shweta Dhir	DateofBith 9/11/1984 12/14/1983 8/24/1984 8/6/1984

(2 marks for anyone correct differentiation point)

(c) Latest Hit Station Video library stores data of all available DVDs on its server in a table named HitMovies in Access. Study the relation HitMovies given below and answer the following questions:

MID	MName	Director	ReleaseDate	Releasing Company
M01	London Dreams	Vipul Shah	10/08/09	Joshua
M02	Wake Up Sid	Ayaan Mukherjee	19/08/09	Trinayan
M03	What's Your Rashee	Ashutosh Gowariker	18/08/09	Harem
M04	Aladdin	Sujoy Ghosh	15/08/09	Chahata

(1) Name the field which can act as the primary key in the table HitMovies.

1

2

Ans	MID can	att as the	primary key	
-----	---------	------------	-------------	--

(1 mark for naming the correct field)

	(2)	If the Release details of the movie have to be stored in a separate table (named RELEASE), then identify any two fields from the above table which should be included in the table RELEASE.	1			
Ans	The t Com	wo fields to be included in the Table RELEASE are ReleaseDate and, Releasing pany				
	(½ m	eark each for naming the two fields correctly)				
	(3)	What type of relationship exists between the table HitMovies and the newly created table RELEASE?	1			
Ans	One-	to-One				
	(1 m	ark for the naming the correct relationship type)				
	(d)	What are the advantages of Flash movie over animated GIF movie?	1			
Ans	Adva	Advantages of Flash over GIFare:				
	I	A Flash movie can be stopped or restarted by the user while in GIF user interaction is not possible.				
	I	It is very easy to edit a Flash movie, while editing of GIF animation is not possible.				
	(1 m	ark for anyone correct advantage)				
	(e)	Give the full form of BMP.	1			
Ans	Bitm	ap Picture				
	(1 m	ark for the correct expansion)				
	(f)	Write a short note on SMS.	2			
Ans	short	stands for Short Message Service. This facility allows users to send and receive alphanumeric messages(approx. 160 characters) to a mobile phone via a ork operator's message center.				

(2 marks for the correct explanation of SMS)

- 2. Answer the following questions based on Macromedia Flash:
 - (a) The normal layer lets you add content in a flash movie that moves along a straight path. Name any two types of layers which can help you to manipulate the content on a normal layer and improve the animation.

1

2

2

Ans Guide Layer, Motion Guide Layer, Mask Layer

(¹/₂ mark each for mentioning any two layer types)

- (b) What is the use of dividing a movie into separate scenes?
- Ans The advantage of breaking a movie into scenes is that every scene can be accessed individually and thus the sequence or order of the scenes can be changed.

(1 mark for the correct usage)

(c) Enumerate the benefits of frame by frame animation over tweening animation.

Ans		Frame by Frame Animation		Tweening Animation
	1.	This is a form of animation where an object's appearance or position is changed slightly from frame to frame to create the impression of movement.	1.	This is a form of animation where the starting and finishing points for the object to be animated are given and Flash automatically fills the frames in between.
	2.	This type of animation allows greater control over changing content across the Flash Timeline	2.	It allows less control over changing content due to automatic animation done by Flash

(2 marks for correctly explaining anyone benefit)

(d) Differentiate between Exporting and Publishing a Flash movie.

Ans		Publishing		Exporting
	1.	Publishing is preparing movie files and	1.	Exporting is saving a movie file in
		accompanying HTML codes for		different formats to be played using a
		uploading movies on the Internet.		particular player.
	2.	Settings can be saved for reuse.	2.	Settings cannot be saved.

- 3. A movie is published only if the recipients are expected to play it on the internet using Flash player (Publishing in other formats is also possibe)
- 3. A movie is exported from Flash only if the recipients are expected to play it using software other than Flash.

(2 marks fpr anyone correct differentiation point)

(e) Observe the image given below and do as directed:



- I The image on the left hand side shows the position and size for frame 1.
- I The image on the right side shows the position and size for frame 25.
- Assume that the images of butterfly and flower are stored in the Flash library by the name butterfly and flower respectively and the colour and size of the image remains the same.
- I The curve shows the path followed by the butterfly to reach from frame 1 to frame 25.

Write the procedure and property settings for animating the above scenario.

- Ans The following steps have to be followed to animate the given scenario:
 - Select frame 1 from the timeline and insert the butterfly image from the library.
 - I Select the image and place it on the left hand side.
 - Select frame 25 from the timeline and Select Insert Keyframe
 - Select the image and position it on the right hand side of the stage at the desired location. Also insert the image of the rose.
 - Select any frame between 1 and 25.
 - Right click the mouse button and Select Create motion tween.
 - Select the layer containing the motion tween. Right click and select Add Motion Guide.
 - Select the pencil tool from the drawing toolbar and draw the path of motion.

OR

Any other equivalent method.

(1/2 marks for each step)

- 3. Answer the following questions based on HTML :
 - (a) Differentiate between <HR> and
 tags.
- Ans HR stands for horizontal rule and the <HR> tag allows the user to insert a section break by inserting a horizontal line. On the other hand, BR stands for break and the
 tag is used to insert a line break so that the subsequent text is displayed on a fresh line.

(2 marks for the correct differentiation point) Note: Only 1 mark to be awarded if only the full forms of the tag are given

(b) Write the HTML code to generate the web page in the format shown:



2

Consider the following points while writing the HTML code:

- 1. Title of the page should be "eCards".
- 2. Background colour should be "Purple".
- 3. Text style of the main heading should be "Aria! Bold" and colour should be red.
- 4. Image used is "cards.jpg".
- 5. Table should have a 5 pixel thick border of colour green and the spacing between cell content and border is 15 pixels.
- 6. Use the concept of nested lists for creating the specified lists.
- 7. The bottom image (link.jpg) and the text "Personalize the Cards" are links to the page "person.html".

Ans <HTML>

<HEAD><TITLE>eCards</TITLE></HEAD>

<BODY BGCQLOR="Purple">

<H2 ALIGN = CENTER> E-CARDS </H2>

e-Cards is a website offering new and trendy cards for all ages.


```
<OL><FONT SIZE = +1 ><B> Categories of Cards Offered </B></FONT>
```

 General Cards

<UL TYPE = "square">

Thinking of You

Missing You

< LI > Frieds Forever

Specific Cards

<UL TYPE = "ci rcle" >

Happy Birthday

Happy Diwali

< LI > Happy Anniversary

You can also order flowers through our site

```
<TABLE ALIGN = CENTER BORDER=5 BORDERCOLOR = "Blue" CELLPADDING=15>
<CAPTION> <FONT COLOR = "BLUE"> PRICE LIST </CAPTION>
```

<TR>

<TH> Bouquet Type </TH>

<TH>Price </TH>

<TR>

<TD>Flower Galore

<TD>Rs. 200

<TR>

<TD>Flower Shower

<TD>Rs. 300

<TR>

<TD>Flower Power

<TD>Rs. 400

</TABLE>

<CENTER>

Personalize The Cards <IA>

</BODY>

</HTML>.

(1/2 mark for correct use of <HTML> and <BODY> tags)

- + ($\frac{1}{2}$ mark for correct use of <TITLE> tag)
- + (¹/₂ mark for body background colour)
- + ($\frac{1}{2}$ mark for mentioning the correct font type and color)
- $+(\frac{1}{2} mark for displaying the heading correctly in center)$
- + (1¹/₂ mark for correctly creating the nested list)
- + ($\frac{1}{2}$ mark for making table border 5 pixel thick and bordercolor green)
- + ($\frac{1}{2}$ mark for making table cellspacing as 15 pixels)
- + (¹/₂ mark for giving table <CAPTION>)
- + (1 mark for correctly creating the table)
- + $(\frac{1}{2} mark for displaying the links in center)$
- + ($\frac{1}{2}$ mark each for correctly creating the link on the image and the text)
- 4. Answer the following questions based on ASP:
 - (a) How is an ASP file different from a simple HTML file?

1

2

- Ans The main differences between a HTML file and an ASP file are:
 - I HTML files are static web pages while ASP are dynamic web pages.
 - HTML file has the extension. htm or . html while ASP files have the extension .asp.
 - When a user requests a HTML file, the web server sends the HTML file directly to the client without any processing while the ASP file is first executed by the ASP engine and converted into HTML code before sending it to the client.

(1 mark for anyone correct differentiation point)

(b) Which method of the RecordSet Object will you use to move the cursor directly to the first record in the record set?

Ans MoveFirst

(1 mark for naming the correct method)

- (c) How is the Connection object different from the RecordSet object?
- Ans The Connection Object is used to connect to a data source. Through the connectfon 'object, one can access and manipulate a database while the . Recordset object is

used to hold a set of records from a database table. A Recordset 'object consists of rows and columns in which the data is stored in an organized manner.

(2 marks for the correct differentiation point)

- (d) Identify the following:
 - (i) The ASP object which stores information needs for a particular user session.

3

3

1

- (ii) The ASP component used to keep track of the number of visitors who have visited the web page.
- (iii) The Request object collection that will be used to retrieve information submitted by the user in a form using GET method.

Ans 1. Session Object

- 2. Page Counter
- 3. Querystring Collection

(1 mark for each correct answer)

- (e) Give the output of the following statements:
 - (i) Response.write(FALSE AND NOT TRUE OR TRUE)
 - (ii) Response.write(LEFT("With Multimedia",5)& UCASE ("Life is Fun"»
 - (iii) Response.write((4-3)*(6/2-3))

Ans i) True

- ii) With LIFE IS FUN
- iii) 0

(1 mark for each correct answer)

Note: ¹/₂ mark to be awarded for each part if the steps showing the working are correct but the final output is wrong

- 5. Answer the following questions based on ASP:
 - (a) Expand the term IIS.
- Ans Internet Information Services

(1 mark for the correct expansion)

(b) Differentiate between AdRotator and ContentRotator components of ASP.

2

2

Ans The ASP AdRotator component which can be used to display a different advertisement in the form of an image each time a user enters or refreshes a page while the ASP Content Rotator which can be used to display different HTML content string each time a user enters or refreshes a page.

(2 marks for the correct differentiation)

(c) Predict the output of the following code:

```
<Script Language="VBScript">
Dim A, B
A = 2
B = 20
Do While A < 6
Document.Write(A+B)
A = A + 1
B = B-2
```

Loop

</Script>

Ans 22212019

(1/2 mark each for the four numbers in the output)

(d) Rewrite the following code after removing errors with each correction underlined:

<BODY>

The login name entered by the user is :

<%

pass = RESPONSE.QUERYSTRING ("password")

%>

The password is :

<%

If pass <> "enter" then

```
REQUEST.WRITE (Invalid)
```

Otherwise

RESPONSE.WRITE ("Valid")

end

%>

</BODY>

Ans <BODY>

The login name entered by the user is :

<%

pass = <u>REQUEST</u>.QUERYSTRING ("password")

%>

The password is:

<%

if pass <> "enter" then

```
RESPONSE.WRITE("Invalid")
```

ELSE

RESPONSE.WRITE ("Valid")

End IF

%>

</BODY>

(1/2 mark each for correcting any four errors)

(e) Write the ASP code that will read the text file named friends.txt, count the number of lines in the file and then display the same.

3

Ans <%

count = 0

Set Fobj = Server.CreateObject ("Scripting.FileSystemObject")

```
Set mFile = Fobj.OpenTextFile ("multi.txt")
```

```
Do while NOT mFile.AtEndOfStream
```

mFile.ReadLine

count = count + 1

Loop

Response.Write ("Total lines in the file are: & count")

mFile.close

%>

(¹/₂ mark for correctly creating the file system object)

+ $(\frac{1}{2} mark for opening the file)$

+ ($\frac{1}{2}$ mark for the loop)

+ ($\frac{1}{2}$ mark for reading the line)

+ ($\frac{1}{2}$ mark for incrementing the counter)

- + $(\frac{1}{2} mark for displaying the number of lines)$
- 6. Answer the following questions based on VBScript :
 - (a) Name the event to be used in the following situations:
 - (i) To perform an action when the button gains focus.
 - (ii) To perform an action when a button is clicked.

Ans i) Onfocus

ii) OnClick

(1 mark for each correct answer)

(b) Rewrite the following code using DO WHILE instead of FOR loop without affecting the output:

2

2

<HTML>

<BODY>

<SCRIPT LANGUAGE = "VBScript" >

DIMA, B, C, Count

```
A = 0
           \mathbf{B} = 1
           FOR Count = 3 TO 10 STEP 2
                 C = A + B
                 Document.Write (C & " ")
                 A = B
                 \mathbf{B} = \mathbf{C}
           NEXT
           </SCRIPT>
           </BODY>
           </HTML>
Ans <HTML>
     <BODY>
     <SCTRIPT LANGUAGE = "VBScript">
     DIM A, B, C, Count
     A = 0
     \mathbf{B} = 1
     Count = 3
     DO WHILE Count < 10
     C=A+B
     Document. Write (C &. " " )
     A = B
     \mathbf{B} = \mathbf{C}
     Count=Count+2
     LOOP
     </SCRIPT>
     < / BODY>
     </HTML>
```

(1/2 mark each for writing the mentioned underlined lines correctly)

(c) Give the output of the following code:

<HTML>

<BODY>

<SCRIPT LANGUAGE="VBSCRIPT">

DIM Num, Flag

Flag = 0

Num = 10

FOR A = 2 TO Num/2

IF Num MOD A = 0 THEN

DOCUMENT.WRITE (Num+1)

ELSE

DOCUMENT.WRITE (Num - 1)

END IF

NEXT

</SCRIPT>

</BODY>

</HTML>

Ans 119911

(1/2 mark for each correct number in the output)

| (d) | Input Number | | |] |
|-----|-------------------|-----------|------------|---|
| | Check Divisibilit | y by | |] |
| | | Divisibil | ity Result | |

Write the HTML code for creating the above displayed form. Write the embedded VB Script code for the click event of the 'Divisibility Result' button such that it displays a message box based on whether the number input in the first textbox is divisible by the number input in the second textbox according to the following criteria:

- I If number is divisible then message displayed is "Wow! I belong to your family"
- I If number is not divisible then message displayed is "Let's look for my friends"

Ans <HTML>

```
<HEAD><TITLE>DIVISIBILTY CHECK</TITLE>
```

```
<SCRIPT LANGUAGE="VBScript">
```

SUB B1_OnClick

Dim A, B

A=FORM1.T1.VALUE

B = FORM1.T2.VALUE

IF A MOD B = 0 THEN OR IF FORM1.T1.VALUE MOD FORM1.T1.VALUE THEN

MSGBOX ("Wow ! I belong to your family")

Else

MSGBOX ("Let's look for my friends")

END IF

END SUB

</SCRIPT>

</HEAD>

<BODY>

```
<FORM NAME = "FORM1">
```

```
<P>INPUT NUMBER <INPUT TYPE = "TEXT" NAME = "T1">
```

```
<P>CHECK DIVISIBILITY BY <INPUT TYPE = "TEXT" NAME = "T2">
```

<P>

```
<INPUT TYPE = "Button" VALUE = "Divisibility Result" NAME="B1">
```

</FORM>

</BODY>

</HTML>

	(½ n	nark for correct <form> tag)</form>					
	(½ n	nark for creating textboxes using <input/> tags)					
	(½ n	nark for creating button using <input/> tag)					
	(¹ /2 mark for correct <script> tag) (¹/2 mark for associating subroutine with the button element)</th></tr><tr><td></td></tr><tr><th></th><th colspan=6>(1 mark for correct conditional statement)</th></tr><tr><th></th><th>(½ n</th><th>nark for correctly displaying the output in the message box)</th><th></th></tr><tr><td>7.</td><td>Ansv</td><td>wer the following questions based on the unit Web Technologies:</td><td></td></tr><tr><td></td><td>(a)</td><td>Define the term Cyber Law.</td><td>1</td></tr><tr><td>Ans</td><td colspan=4>Ans It refers to the set of laws governing the usage of cyberspace / Internet. It encompasses a wide variety of political and legal issues related to the Internet.</td></tr><tr><td></td><td>(1 m</td><td>ark for the correct definition)</td><td></td></tr><tr><td></td><td>(b)</td><td>Expand the term WLL.</td><td>1</td></tr><tr><td>Ans</td><td>Wire</td><td>less Local Loop</td><td></td></tr><tr><td></td><td>(1 m</td><td>ark for the correct expansion)</td><td></td></tr><tr><td></td><td>(c)</td><td>What are the following software used for?</td><td>2</td></tr><tr><td></td><td></td><td>(i) Apache Tomcat</td><td></td></tr><tr><td></td><td></td><td>(ii) MySQL</td><td></td></tr><tr><td>Ans</td><td>i)</td><td>Web Server</td><td></td></tr><tr><td></td><td>ii)</td><td>Relational Database Management System</td><td></td></tr><tr><td></td><td>(1 m</td><td>ark each for mentioning the correct usage of each of the two)</td><td></td></tr><tr><td></td><td>(d)</td><td>Differentiate between Twisted pair cable and Co-axial cable.</td><td>2</td></tr></tbody></table></script>						

Ans		Twisted Pair cable		Co-axial cable
	1.	Relatively low data transfer rate	1.	Comparatively higher data transfer rate
	2.	This type of cable is very susceptible to electromagnetic fields	2.	This type of cable is less susceptible to interference

3.	Most common application is the	3.	Widely used for cable	
	telephone system		television	

(2 marks for anyone correct differentiation point)

ProActor School of Acting in Mumbai is setting up the network between its different wings. There are 4 wings named as SENIOR(S), JUNIOR(J), ADMIN(A), and HOSTEL(H).



Distance between various wings are given below:

Wing A to Wing S	100m
Wing A to Wing J	200m
Wing A to Wing H	400m
Wing S to Wing J	300m
Wing S to Wing H	100m
Wing J to Wing H	450m

Number of computers in each wing is as given below:

WingA	10
Wing S	200
Wing J	100
Wing H	50

(i) Suggest the most suitable topology for connecting these wings.





(1 mark for the correct topology)

	(ii)	Suggest the most suitable place to house the server. Justify your choice.	1
Ans	Wing	gS as it has the maximum number of computers	
	(½ n	tark for the correct name and $\frac{1}{2}$ mark for the justification)	
	(iii)	Where and why should repeaters be used?	1
Ans	Betw	veen S and A, Sand J, S and H as all the distances are greater than 75 m	
	(½ n	nark for the correct placement and ½ mark for the justification)	
	(iv)	The second branch of the school situated in a hilly region is to be linked with its headquarters in Mumbai. Suggest the most economical way to connect it. The organization is ready to compromise on the speed of connectivity.	1

Ans Radio Waves OR TCP/IP

(1 mark for the correct transmission medium)