DELHI PUBLIC SCHOOL, NOIDA
SUBJECT : MULTIMEDIA &WEB TECHNOLOGY
CLASS : XII
HALF YEARLY EXAMINATION

Time allowed: 3 hours   **Maximum Marks : 70**
Note :

 - ➤ Please check that this question paper contains 7 questions..
 - ➤ Answer the questions after **carefully reading** the text.
 - ➤ Please write down the serial number of the question before attempting it .

_____

1. (a) Define the following terms   2
    i. Candidate key- An attribute or combination of attributes that uniquely identifies a record is known as Candidate key.
    ii. Cardinality – the total number of rows or tuples in a table is called its Cardinality.

    (b) Consider the following tables BANK and CUSTOMER. Study the following data and answer the question given below :
        Table BANK

AccNo	Name	DB_Amt	CR_Amt	Balance	Tr_Date
3035	Abhinav	10000	30000	200000	27-12-'07
6542	Karan	5000	45000	500000	29-12-'07
2222	Parteek	7000	145000	1400000	22-12-'07
3571	Sanjoli	8000	2459700	2451700	30-12-'07

Table : CUSTOMER

AccNo	Address	PhoneNo	Photograph	Sign_Sample
3571	Sec-17	987652222	C:\image\san.jpg	C:\image\ssig.jpg
3035	Sec-16	986753333	C:\image\bel.jpg	C:\image\bsig.jpg
2222	Sec-34	987898765	D: \g.jpg	D:\ gsig.jpg
3035	Sec-17	986753334	C:\image\cel.jpg	C:\image\csig.jpg

(i) Suggest data types that should be used for each of the fields in the table Bank   2

AccNo	Name	DB_Amt	CR_Amt	Balance	Tr_Date
Number	Text	Number	Number	Number	Date

(ii) What type of relationship exists between the table BANK and the table CUSTOMER?   1
One to Many Relationship

(iii) Name the field that can be set as a primary key in BANK and foreign key in the table **CUSTOMER** .
                                                                                           1

primary key in BANK – AccNo   foreign key in CUSTOMER – AccNo

(c) Study the following data and answer the questions given below :
    Table : RETAILINVOICE.mdb

S.L	Material Code	Article Name	Brand	Colour	Size	Qty	MRP
1	0730	1004-01red	Gliders	White	37	1	999.00
2	3300	Catie	Footfun	Pink	30	1	499.00

1

i. Suggest the data types that should be used for each of the fields in the RetailInvoice table.   2

S.L	Material Code	Article Name	Brand	Colour	Size	Qty	MRP
Number	Number	text	text	text	Number	Number	Currency

ii. If the Material Detail is to be stored in a separate table (named MATERIAL), then identify two fields from the above table which should be included in the new table.   1

Material Code	Article Name

iii. Name the field that can act as a primary key in "retailinvoice" table   1
Material Code

2. Questions given below are based on Macromedia Flash:
(a) What do you understand by timeline?   1
Ans. It is the area on the screen where we work with layers and frames. The timeline organizes and controls a movie's content over time.

(b) Explain the usage of character panel.   1
Ans; Text formatting options are available in the character panel, which allows one to change the font type, font size, colour, style and much more.

(c) Differentiate between frame by frame animation and tweening animation.   2

Frame by Frame Animation	Tweening Animation
Position is changed slightly from frame to frame.	Starting and finishing points for the object to be animated are given and flash animates it by filling in all the frames in between..
It increases the file size and design time ,	It is faster , easier to edit and has a smaller file size.

(d) Differentiate between Layer and frame.   2

Layer	Frame
It is used to maintain separation between objects and help to organise movie content.	It is the smallest unit of change in an object or symbol..
It can be a Normal, Plain Guide, motion Guide or mask layer.	It can be statics ,key frame or blank key frame.

(e) Observe the figure given bellow and do as directed :   4

- The text "learn flash 5.0 in three days" shows the position and size in frame 1.
- The solid circle image shows the position and size of the image for mask layer.

Write the procedure and property settings for animating the above scenario.
Ans. 1. Select frame 1 from the timeline and select text tool from the toolbox.
2. Using Text tool type the given text on the stage and using text menu change its style and size
3. Select frame 40 and insert keyframe.
4. Right click on layer 1 and select insert layer.
5. Select frame 1 of layer 2 and using oval tool draw a circle covering four alphabets of the text.
6. Select the circle drawn and using right click select Convert to symbol.
7. Select frame 40 of layer 2 and select insert keyframe.
8. Select any frame between 1 and 40 of layer 2 and select Motion Tweening.
9. Right click on layer 2 and select Mask
10. Press ctrl +play to test the movie.

3. **Question given below are based on HTML:**

a) What is the use of TEXTAREA ? Write all the attribute of textarea.   2

Ans. Textarea is used to create a multiple line text box in a form. The attributes are – name, cols, rows, wrap.

b) Write the HTML code to generate a Web Page in the format given below :   8

```
<html>
<head>
<title>Industry</tilte>
</head>
<body bgcolor=green link=red alink=pink vlink=brown>
<font color= "gray">
<h1> Manufacturing Industries</h1>
</font>
<img src= "costcutting.jpg" align=right>
Manufacturing is the application………….. industrial Design
<b>
<ol>
<li> Manufacturing
<ul>
<li><a href= "a1.html">Analytical</a>
<li><a href== "syn.html"> Synthetical </a>
<li> Processing
<li><a href= "ab1.html">Assembling</a>
</ul>
</ol>
<table border=2 bordercolor=blue>
<font color= "sky blue">
<caption align="bottom"> Trading</caption>
</font>
<tr bgcolor="cyan">
<td colspan=4> Trade</td>
</tr>
<tr>
<td colspan=2>Internal </td>
<td colspan=2>External </td>
</tr>
<tr>
<td>Wholesale</td>
<td>Retail </td>
<td>Import </td>
<td>Export </td>
</tr>
</table>
<center>
<a href= "ASD.html"><img src="try1.gif"><br>
Table of Contents</a>
</center>
</body>
</html>
```

3

4. **Question given below are based on ASP :**

(a) Explain with examples two ways in which server – side scripts can be added to an HTML document. 2

Ans: 1. <%@ LANGUAGE= scripting language%>

2.   <SCRIPT LANGUAGE="vbscript" RUNAT= server>

(b) Differentiate between static web page and dynamic web page.   2

Ans: A dynamic web page is an Active Server Page can. It can contain server-side scripts, built-in objects and additional Active-X components whereas a static web page is a normal HTML page. It cannot have any scripts or additional components.

(c) What is the significance of the option explicit statement?   1

Ans: A keyword "OPTION EXPLICIT" make it compulsory to declare all the variable using DIM key word otherwise it will show an error message .

(d) Explain with example the usage of following inbuilt function: 2

          i.   Ccur()   ii. Cint()

i. Converts an expression to a variant of subtype Currency.

ii. Converts an expression to a variant of subtype Integer.

(e) Find output   6

 i.   Response.write(strreverse (left(mid("Must write supporting answer",6,6),4)))

   Ans. tirw

ii.   Response.write(monthname(month("16-01-2009")))

   Ans. January

iii.   Response.write((8*2-5+18<34) XOR (9>5))

   Ans. False

iv.   Response.write(strreverse (mid("card game",sqr(4),year(date())\1005)))

   Ans. ra

 v.   Response.write(right("special character",day(date()) mod 6))

   Ans. r

vi.   Response.write(ucase (mid("discription",3,instr("performed","or"))))

   Ans. SCRIP

5. **Question given below are based on ASP :**

(a) What is a cookie? What kind of information can be stored in cookies?   2

Ans: Cookies provide a means of identifying visitors. It also keeps

1. **Personal Information**
2. **Information about an online transaction**
3.

(b) Differentiate between an ASP Application and ASP Session   2

Ans: Application object is used to share information among all users of a given application.

Session object is used to store information needed for a particular user session.

Unlike an application variable, separate copies of a session variable are created for each visitor to the Web site.

(c) Describe the following   4

          i.   AppendToLog Method
         ii.   Clear Method
        iii.   Flush Method
         iv.   Execute Method

Ans: AppendToLog Method (response object)-adds a string to the end of the web server log entry for the request.

Clear Method(response object)-erases any buffered HTML output.

Flush Method(response object)-send buffered output immediately.

Execute Method(server object)-execute an .asp file.

4

(d) Find the output of the following ASP coding   2

```
<% arr=array(25,12,36,65,69,62,21,14,15,36)
        max=ubound(arr)
        for I = max to 1 step -2
                arr(i)=abs(50-arr(i))
        next
        for I = 1 to max
                response.write(arr(i) & "<br>")
        next   %>
```

Ans. 38

36

15

69

12

21

36

15

14

(e) Find the errors in the following ASP code   2

Ans. <%@language=”VBScript”%>

<body>

<%

s= “Dynamic Array”

do while (i<7)

if len(s) mod 2 =0 then

response.write (s)

end if

loop %>

</body></html>

(f) Write the OnStart event of Application Object to initialize the values of variables – Name, Address, DOB, Class, email.   (Values – “Geet”, “Chandigarh”, “23/10/92”, “XII”, geet@yahoo.com.)   **4**

Ans.   Sub Application_OnStart

Application (“Name”)=”Geet”

Application (“Address”) = “Chandigarh”

Application (“DOB”) = “23/10/92”

Application (“Class”) = “XII”

Application (“email”) = geet@yahoo.com

End Sub

6. **Question given below are based on VBScript :**

(a)   Define array. How is it declared?   1

(b) Change the following script using For……… next without affecting the output: 2

```
dim name , i
i=1
name= "ARYAN"
        do while I <= len (name)
        document.write instr(mid(name,i),"A")
i=i+1
loop
```

Ans.   dim name , i

i=1

name= “ARYAN”

for i=1 to len (name)

document.write instr(mid(name,i),”A”)

5

next

c) Give the output for the following script code: 2

```
dim x,y
y=10
for x= 1 to 4 step 1
        if (x mod 2 ) = 0 then
                y=y-x
        else
                y=y+2*x
        end if
        document.write (y)
next
```

Ans. 12101612

d) Rewrite the following code after removing errors with each correction underline: 2
Ans.

```
<script language="VBScript">
        sub result()
                dim K,M
                        while K<10 and M>5
                        if K % 3 == 0 then
                                K=K+M
                        else
                                K=K-M
                                M=M+3
                        end if
                        Loop
                        Document.write("K=" +K)
        </script>
```

e) Write the HTML code for creating the form given below and also write the embedded VBScript code for the click event of the verify button, such that it displays a required message..   4

Apply the following validations :
- Enrollment number must be of 4 digit
- The charge per semester are as follows

Facility		Course	
Library	Rs 5000	MCA	Rs. 50000
Hostel	Rs. 15000	MBA	Rs. 56000

- Calculate the charges per semester (six months) for the facility availed.

6

Ans.

```
<html>
<body>

<form name="f">
Enrollment No. <input type="text" name="e"><br>
Course <input type=radio name="co" value="mba">MBA
<input type=radio name="co" value="mca">MCA
<br>
Facility Available<input type="checkbox" name="f1" value="lib">Library
<input type="checkbox" name="f2" value="hos">Hostel
<br>
<input type="submit" value="verify" name="b1">
</form>
<script language="VBScript">
sub b1_OnClick()
dim c
c=0
dim z
z=document.f.e.value
if z>=1000 and z<=9999 then

        if document.f.f1.checked=true then
                c=c+5000
        end if
        if document.f.f2.checked=true then
                c=c+15000
        end if
        if document.f.co(0).checked then
                c=c+56000
        elseif document.f.co(1).checked then
                c=c+50000
        else
                msgbox "Select a course"
        end if
        msgbox "The charges for one semester are" & c
else
        msgbox"enrolment number should be four digit"
end if
end sub
</script>
</body>
```

7