MULTIMEDIA AND WEB TECHNOLOGY

Time allowed : 3 hours
Maximum Marks : 70

Note :  
(i) All questions are compulsory.
(ii) Answer the questions after carefully reading the text.

1. (a) Observe the table GYM of a Database named Health Equipment given below carefully and answer the questions that follow :

Table : GYM

<table>
<thead>
<tr>
<th>ICODE</th>
<th>INAME</th>
<th>PRICE</th>
<th>BRANDNAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Power Fit Exerciser</td>
<td>20000</td>
<td>Power Gymea</td>
</tr>
<tr>
<td>102</td>
<td>Aquafit Hand Grip</td>
<td>1800</td>
<td>Reliable</td>
</tr>
<tr>
<td>103</td>
<td>Cycle Bike</td>
<td>14000</td>
<td>Ecobike</td>
</tr>
<tr>
<td>104</td>
<td>Protoner Extreme Gym</td>
<td>30000</td>
<td>Coscore</td>
</tr>
<tr>
<td>105</td>
<td>Cross Trainer</td>
<td>13000</td>
<td>GTCFfitness</td>
</tr>
</tbody>
</table>
2. Questions below are based on Macromedia Flash:

(a) Study the figure given below and answer the questions that follow:

(i) Name the guided layer in the above scenario.

(ii) Given the above settings, will the contents of the layer Motion be displayed in the final movie? Justify.

(iii) Given the above settings, name the active layer.

(iv) What does the value 4.5s in the area labelled as A signify?
(b) What is the difference between shape tweening and motion tweening?

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

- The graphic on the left hand side shows the position and size for frame 1.
- The graphic on the right hand side shows the position and size for frame 30.
- The triangle graphic used in the animation is saved in the flash library.

Write the procedure and property settings for animating the above scenario assuming the color of the object remains the same.

3. Answer the following questions based on HTML:
   
   (a) Fill in the blanks in the given HTML code to create a hyperlink on the text "Learning is Fun" to the page "LearnNShare.html"

   ```html
   <HTML>
   <BODY>
   <A_______ = ______ > _______ </A>
   </BODY>
   </HTML>
   ```
(b) Write the HTML code to generate the web page in the format shown:

Consider the following points while writing the HTML code:

1. The title of the web page is Second Hand Cars.

2. The color scheme is as follows:
   (i) Page background color is silver.
   (ii) Horizontal line is blue.
   (iii) Table border is red.
   (iv) Font color is blue.

3. The images used are car1.jpg and car2.jpg.

4. The heading is in Forte font and the rest of the page uses Comic Sans MS font.

5. Create the given list with appropriate bullet type.

6. The link at the bottom is an e-mail link to the address shcars@gmail.com.
4. Answer the following questions based on ASP:

(a) With the help of an example explain the difference between the working of the operators + and &.

(b) Explain the use of the Remove and RemoveAll methods of the Session object.

(c) Name the object used for the following:
   (i) To obtain information about an error condition that has occurred in the script
   (ii) To share information among all users of a given application
   (iii) To control information sent back to the browser from the server

(d) Give the output of the following statements:
   (i) Response.write((10-5+3)\4)
   (ii) Response.write(LEN("TEST DAY"))
   (iii) Response.write(STRREVERSE("MADAME"))

5. Answer the following questions based on ASP:

(a) What is the use of the recordSet object?

(b) Study the code given below and answer the questions that follow:

```html
<HTML>
<BODY>
<CENTER><H1>BLOOM CARDS</H1></CENTER>
<HR>
<% Set myad=Server.CreateObject("MSWC.ADRotator") %>
<P ALIGN="LEFT">+%myad.GetAdvertisement("myads.txt")%>
   Cards for all occasions - birthdays, anniversaries
   and marriages
</BODY>
</HTML>
```
(i) What is the significance of the delimiters `<% %>` in the above code?

(ii) Give one special feature of the Ad Rotator component of ASP.

(iii) Name any one ASP component apart from Ad Rotator.

(iv) Name any one ASP object and one method used in the above code.

(c) Study the code given below:

```<%
Set FileObj=Server.CreateObject("_____FileSystemObject")
Set nfile= FileObj._________ ("lines.txt")
Do WHILE NOT nfile._________
  nfile.ReadLine
  Response.Write("<BR>")
  Response.Write(nfile.ReadLine)
LOOP
________.Close
%>```

(i) Fill in the blanks to complete the above code fragment that reads the text in the file lines.txt and displays alternate lines on the web page.

(ii) If the file lines.txt has 5 lines and the above code is executed, then which lines will be displayed – the first, third and fifth line or the second and fourth line.
(iii) How will the output change if the first and the third line of the loop are interchanged as shown below?

```
Set FileObj=Server.CreateObject
    ("________.FileSystemObject")
Set nfile= FileObj.________("lines.txt")
Do WHILE NOT nfile.________
    Response.Write(nfile.ReadLine)
    Response.Write("<BR>")
nfile.ReadLine
LOOP
    __________.Close
```

6. Answer the following questions based on VBSCRIPT:

(a) Which of the following options correctly matches the given events with the appropriate interface element

<table>
<thead>
<tr>
<th>Event</th>
<th>Interface Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>OnClick</td>
<td>Text</td>
</tr>
<tr>
<td>OnMouseOver</td>
<td>Button</td>
</tr>
<tr>
<td>OnChange</td>
<td>Image</td>
</tr>
</tbody>
</table>

(i) Button – OnMouseOver, Text – OnClick, Image – OnChange
(ii) Button – OnChange, Text – OnClick, Image – OnMouseOver
(iii) Button – OnClick, Text – OnChange, Image – OnMouseOver
(b) Study the code given below and answer the questions that follow:

\[ \begin{align*}
\text{<HTML>}
\text{<BODY>}
\text{<SCRIPT LANGUAGE="VBScript">}
\text{Q=30}
\text{FOR P = 5 TO Q STEP 6}
\text{DOCUMENT.WRITE P}
\text{NEXT}
\text{</SCRIPT>}
\text{</BODY>}
\text{</HTML>}
\end{align*} \]

(i) How many times the above FOR loop gets executed? 1
(ii) Convert the given FOR loop to DO WHILE loop without affecting the output. 2
(iii) Give the output of the above code. 2

(c) Write the HTML code to generate the following form:

<table>
<thead>
<tr>
<th>EduSmart Stream Choice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter Child’s Percentage</td>
</tr>
<tr>
<td>Stream</td>
</tr>
</tbody>
</table>

Write the VBScript code to display the Stream for the Institute as
- Science for percentage above 80
- Commerce for percentage between 60 – 80
- Humanities for percentage between 50 – 60
- Not Eligible otherwise

on the click of the DISPLAY button. The user inputs the child’s percentage in the top text box and the stream or the message “Not Eligible” should be displayed in the second text box.
7. (a) Which of the following is not open source software?
   (i) Chrome web browser
   (ii) Linux Operating system
   (iii) MS Office

(b) What was the objective behind developing UNICODE?

(c) Define Protocol. Give the full form of PPP.

(d) Differentiate between E-mail and chat.

(e) ABC School is in the process of setting up their new campus in Gurgaon. As a network expert, you are expected to help the institution by studying the physical locations of various blocks and the number of computers to be installed. On the basis of the given information, provide the best possible answers for the queries (i) to (iv) to help them in the planning phase.

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[Diagram of school layout]

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P.T.O.
Block to Block distances (in mtrs):

<table>
<thead>
<tr>
<th>Place From</th>
<th>Place To</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin Office</td>
<td>Junior School</td>
<td>60 m</td>
</tr>
<tr>
<td>Junior School</td>
<td>Senior School</td>
<td>120 m</td>
</tr>
<tr>
<td>Admin Office</td>
<td>Senior School</td>
<td>60 m</td>
</tr>
</tbody>
</table>

Expected number of computers in each block:

<table>
<thead>
<tr>
<th>Block</th>
<th>No. of Computers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin Office</td>
<td>50</td>
</tr>
<tr>
<td>Junior School</td>
<td>30</td>
</tr>
<tr>
<td>Senior School</td>
<td>30</td>
</tr>
</tbody>
</table>

(i) Draw the most appropriate cable layout to connect all three blocks for efficient communication.

(ii) Name the block that is most suitable to house the server for this campus, with a suitable reason.

(iii) Which type of network, out of the following, is formed by connecting the computers of these three blocks?
- PAN
- LAN
- MAN
(iv) Which wireless channel out of the following should be chosen by the School Management to connect to their campus in another country?

- Infrared
- Microwave
- Satellite