Roll No. ☐☐☐☐☐☐☐

Series SHC   Code No. **89**

- Please check that this question paper contains 7 printed pages.
- Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the condidate.
- Please check that this question paper contains 7 questions.
- Please write down the serial number of the question before attempting it.

MULTIMEDIA AND WEB TECHNOLOGY

Time allowed : 3 hours   *Maximum Marks: 70*

1. (a) What are the advantages of using databases ?   1

  (b) What is the difference between Number and Auto Number data types of MS-Access ?   1

  (c) Study the following data and answer the questions given below :

Table : Guest

Guest_No	Name	Room_no	Dt_Checkin	Dt_Checkout
1012	R.K. Misra	101	03/24/2006	03/25/2006
1034	P. Suresh	104	03/04/1995	03/07/1995
2034	R. Jamal	104	05/16/1996	05/22/1996
2392	V. Ashwin	103	04/06/2000	04/08/2000

Table : Room

Room_no	Type	Tariff
101	Single AC	1200
102	Single Deluxe	1600
103	Double Deluxe	2300
104	Deluxe Suite	3200

  (i) Suggest data types that should be used for each of the fields in the table **Guest.**   1

  (ii) Name the field which can act as the foreign key for the table **Guest.**   1

  (iii) What type of relationship exists between the table **Guest** and the table **Room ?**   **1**

(d) What is the full form of MPEG ? 1

(e) Differentiate between JPEG and GIF file formats. 1

(f) Give extension of any two sound file formats. 1

(g) What is the extension of the file created when you select the Windows Projector setting while publishing a Flash movie ? 1

2. Questions given below are based on Macromedia Flash :

(a) What is a scene with reference to a flash movie ?

(b) What is the purpose of using a guide layer ?

(c) Differentiate between *shape tweening* and *motion tweening.*

(d) What are the different types of symbols that can be inserted in a Flash movie ?

(e) Observe the figure given below and do as directed :
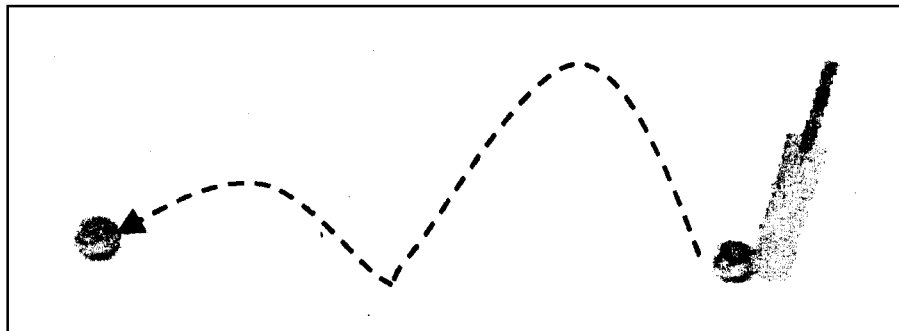
- The image on the right hand side shows the position of the image for frame 1.
- The image on the left hand side shows the position of the image for frame 50.
- The dotted line shows the path of motion of the ball.

Write the procedure and property settings for animating the above scenario. 4

3. Questions given below are based on HTML :

(a) Write the difference between < P > and < PRE > tags in a HTML form. 1

(b) Name the tag and attribute used to make a link open in a particular frame. 1

(c) Write the HTML code to generate a Web Page in the format given below : 8
Consider the following while writing the HTML code :

1. Background colour of the page should be "Yellow", text colour should be blue and visited link colour should be "Green".

2. Title of the page is "Radio India".

3. Text colour of main heading on the page should be "Maroon".

4. Font face of text in the page should be "Arial".

5. Picture used in the page is the file "music.jpg".

6. Use the concept of nested list to display the given list.

7. Pages linked to :

  - Film Music   as "film.html"
  - Classical Music   as "class.html"
  - Sports   as "sports.html"

8. The table should have a caption "Listener's Choice - Top 5", a border of 2 pixels and the background colour of the first row should be "Aqua".
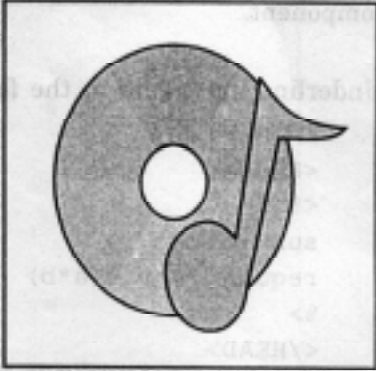

Radio India
What India Listens To...

Enjoy music in various languages, latest hits, classical music alongwith live cricket and much much more!!! So tune in and enjoy...

Select your favourite:

1. **Film Music**
   - Hindi
   - Tamil
   - Bengali
2. **Classical Music**
   - o Indian
   - o Western
3. **Sports**

Listener's Choice – Top 5

Program	Timing
Good Morning India	7.00 a.m. to 9.00 a.m.
Old Melodies	1.00 p.m. to 2.00 p.m.
Hit Masala	6.00 p.m. to 7.00 p.m.
Golden Voices	10.00 a.m. to 11.00 a.m.
Classic Beauties	8.00 p.m. to 9.00 p.m.

4. Questions given below are based on ASP :

(a) What do you understand by default scripting language in ASP ?   1

(b) What is an ASP object ? Name any two ASP objects.   2

(c) Differentiate between Application and Session variables.   2

(d) Give the usage and object to which the following methods/properties belong : 2

  (i) Flush

  (ii) ScriptTimeout

(e) Give output of the following statements :   3

    (i)   `Response.Write(3 * 4 MOD 2 ^ 2)`

    (ii) `Response.Write(RIGHT("Active#Server#Pages",LEN("ASP")))`
          (# represents a space)

    (iii) `Response.Write(ABS(2 + 5 * 4 / 3))`

5. Questions given below are based on ASP :

(a) Which are the two main objects required to connect to a database using ASP ?   1

(b) Explain the significance of the rotator schedule file while using the Ad Rotator component.   2

(c) Underline the errors in the following code and write the corrected script :   2

```
<HTML>
<HEAD>
<%
sub proc(a,b)
request.write(a*b)
%>
</HEAD>
<BODY>
</p>
Output: <%call proc(5)%>
</p>
<%proc 2,6>
</p>
</BODY>
</HTML>
```

(d) Give the output for the following code segment :   2

```
<%
ans = 0
i = 1
do while i <= 3
ans = ans + analysis(i)
i = i + 1
document.write ans
loop
function analysis(a)
analysis = a *a *a
end function
%>
```

(e) Write an ASP program to read a text file named **"mytext.txt"** and display the contents of the file on the screen after converting all alphabets to upper case letters and replacing all spaces with "#". 3

For example if the file contains the text :

Work is Worship.

The program should display :

WORK#IS#WORSHIP.

6. Questions given below are based on VBScript :

(a) What is the Variant data type ? Name any two subtypes of the variant data type used in VBScript. 2

(b) Change the following script using FOR. .NEXT loop without affecting the output : 2

```
<Script Language="VBScript">
A=10
Sum = 0
DO UNTIL A<=1
Document.Write("The countdown begins :" & A)
Sum = Sum + A
A=A-1
LOOP
Document.Write("The Sum is : "& Sum)
</Script>
```

(c) Give the output of the following code segment : 2

```
<Script Language="VBScript">
Dim  Arr(3)
For k = 0 to 3
   If k mod 2 = 0 Then
      Arr(k) = 3 * k
   Else.
      Arr(k) = k + k
End If
Document.Write(Arr(k) & "<BR>")
Next
</Script>
```

(d) Write the HTML code for creating the form given below and also write the embedded VBScript code for the click event of the submit button, such that it displays a message with the name entered by the user and amount of his bill. The costs are given below : 4

> Regular Pizza : Rs. 100
> Pan Pizza : Rs. 150

The toppings cost extra :

> Cheese Topping : Rs. 20
> Capsicum Topping : Rs. 25
> Peperoni Topping : Rs. 30

If the user enters name as "Utsav" and selects "Pan" and topping as "Cheese" then it should display the message **"Dear Utsav ! Your bill amount is Rs. 170"** in a message box.

Yumyum Pizza

Customer name : Utsav

Select pizza type: ○ Regular   ⊙ Pan

Cheese
Capsicum
Select topping: Peperoni

Submit Query

7. Questions given below are based on the unit Web Technologies

(a) What do you understand by WLL ?   1

(b) Differentiate between Circuit Switching & Packet Switching.   2

(c) Explain the following terms :   3
   (i)   Python
   (ii) GNU
   (iii) UNICODE

(d) Icon Multimedia Inc. is a big organisation and has 4 wings where it runs its operations (shown below) :

Wing 2

Wing 3

Wing 1

Wing 4
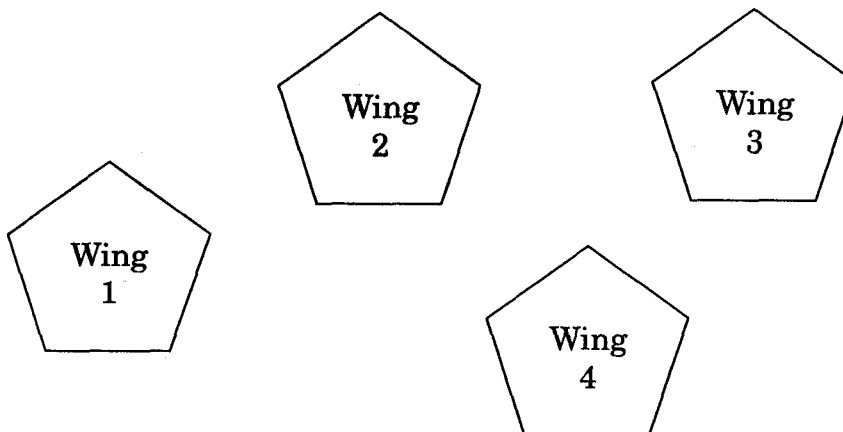
The distances between the different wings are given below :

Between 1 and 2	60 mts.
Between 2 and 3	40 mts.
Between 3 and 4	35 mts.
Between 1 and 4	110 mts.
Between 2 and 4	65 mts.

Each wing contains following number of computers :

Wing	No. of Computers
1	50
2	150
3	60
4	55

Answer the following questions based on the above given information : 4

(i) Suggest suitable cable layout(s) for connecting the wings.

(ii) Where do you think the server should be placed and explain why ?

(iii) Suggest the type of cable that should be used if the organisation wants to send large amount of multimedia files and requires fast access.

(iv) The company also has an office in another city. How can link be established with this office (suggest transmission medium) ?