Code No. **89/1**

Roll No. ☐☐☐☐☐☐☐

Candidates must write the Code on the title page of the answer-book.

- 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 candidate.

- Please check that this question paper contains **7** questions.

- **Please write down the Serial Number of the question before attempting it.**

- 15 minutes time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the student will read the question paper only and will not write any answer on the answer script during this period.

MULTIMEDIA AND WEB TECHNOLOGY

Time allowed : 3 hours]   *[Maximum Marks : 70*

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

(1)

Field Name	Data Type	Description
BID	Text	Book Identification Number
BNAME	Text	Book Name
BPurDate	Date/Time	Date on which the Book was purchased
BPublish	Text	Publisher of the book

(2)

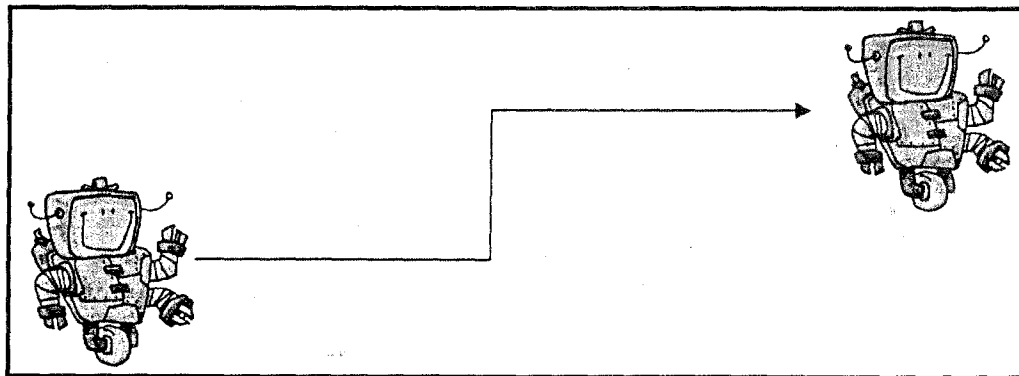| BID	BNAME	BPurDate	BPublish
B03	Action Scripting	10-08-2009	Taxmail
B04	Flash for Dummies	11-08-2009	Penguire
B05	Access Made Easy	10-10-2010	Harping

(b) Illustrate the usage of foreign key with the help of an example.   2

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

Table : WEBSITES

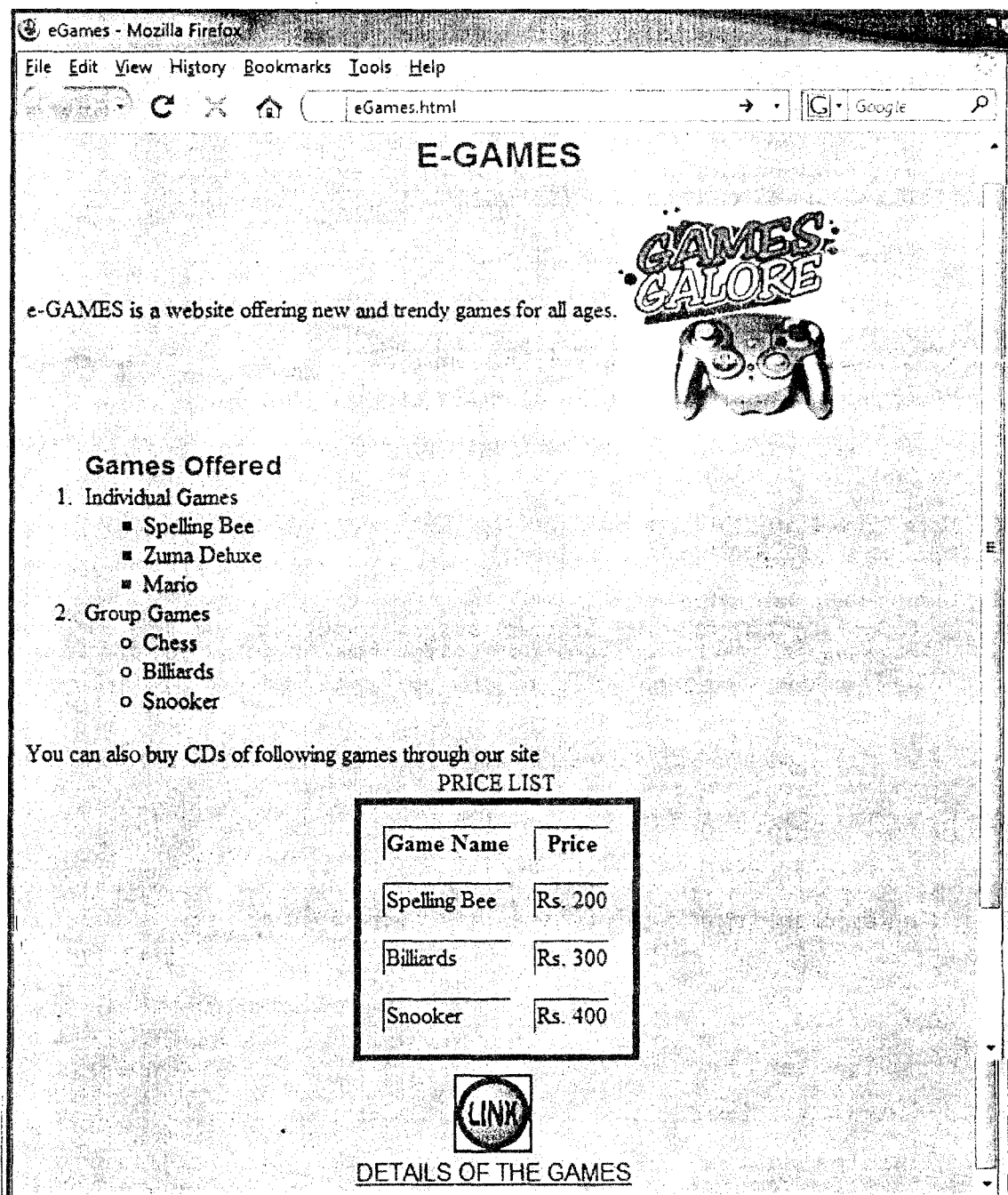| SITE_ID	SITE_CAT	SITE_LAUNCH	SITE_VOTES
S100	Commerce	11/11/2005	25000
S101	Government	10/06/2007	15000
S102	Education	07/02/2008	45000
S103	Organisation	11/10/2008	42000

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

(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

2. Answer 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.

    (a) Name the three structural tags of HTML page and explain the usage of any one of them. **2**

    (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 "game1. 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.

4. Answer the following questions based on ASP.

(a) What do you understand by the term ASP engine ? 1

(b) How do you retrieve information from a form that is submitted using the post method ? 1

(c) How is the AddNew method of the Recordset object different from the Update method of Recordset object ? 2

(d) Identify 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

(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. Answer the following questions based on ASP :

(a) Expand the term PWS. 1

(b) Differentiate between Counter and Page Counter components of ASP. 2

(c) Predict the output of the following code : 2

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

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

(e) Write the ASP code that will read the text file called multi.txt, and display the alternate lines contained in the file. **3**

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.

(b) Rewrite the following code using DO WHILE instead of FOR LOOP without affecting the output : **2**

```
<HTML>
<BODY>
<SCRIPT LANGUAGE="VBSCRIPT">
DIM Num, Flag
Flag = 0
Num = 10
FOR A = 2 TO Num / 2
    Flag = Flag + 1
NEXT
</SCRIPT>
</BODY>
</HTML>
```

(c) Point out the errors in the following code and rewrite the code with the corrections underlined : 2

```
<HTML>
<BODY>
<SCRIPT = "VBSCRIPT">
DIM A, B, C, Count
A = 0
B = 1
FOR Count = 3 TO 6 INCREASE 1
C = A + B
document. Write (C)
A = B
B = C
LOOP
</SCRIPT="VBSCRIPT">
</BODY>
</HTML>
```

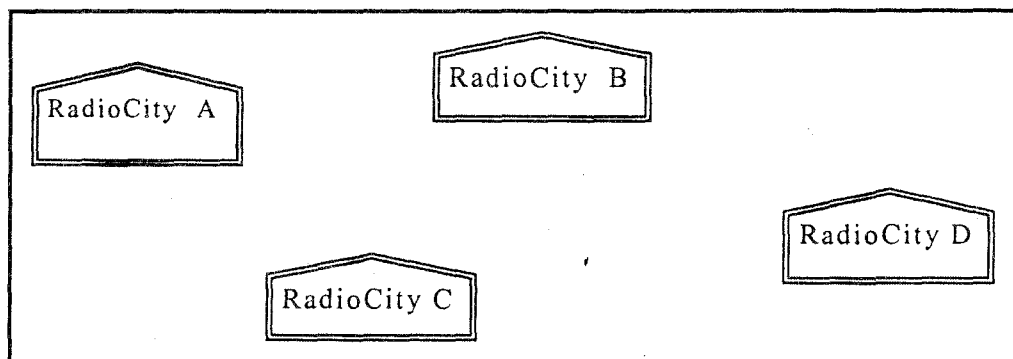(d) Write the HTML code for creating the form shown below : 4

```
┌─────────────────────────────────────┐
│   First Number      [            ]   │
│                                      │
│   Second Number     [            ]   │
│                                      │
│   Divisible         [            ]   │
│                                      │
│          [ Check 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) RadioCity 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 :

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 RadioCity 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.   1

    (3) Where and why repeaters should be used ?   1

    (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 ?   1