

**CBSE AISSCE 2015 Marking Scheme - Multimedia and Web Technology**  
(Sub Code:067 Paper Code 89 Outside Delhi)

**General Instructions:**

- Marking scheme is the final document for all references with regard to evaluation and cannot be altered under any circumstances
- 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
- In VBScript and ASP, ignore case sensitivity for identifiers (Variable/ Subroutines/ Functions)
- In HTML, ignore case sensitivity, spaces and spelling errors in HTML tags (that sound same) and attributes (Example: <BODY bgcolor> and <body bg color> and <FORNT> are acceptable)

**Q1.**

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

**Table: GYM**

ICODE	INAME	PRICE	BRANDNAME
101	Power Fit Exerciser	20000	Power Gynea
102	Aquafit Hand Grip	1800	Reliable
103	Cycle Bike	14000	Ecobike
104	Protoner Extreme Gym	30000	Coscore
105	Cross Trainer	13000	GTCFitness

- (i) Name the two fields that have the text data type in the above table. (1)
- (ii) What are the degree and the cardinality of the table GYM? (2)
- (iii) Which field can act as the Primary key for the table GYM? Also mention the data type of this field. (2)

- Ans**
- (i) INAME & BRANDNAME have the text data type in the above table  
(½ mark for each field name)
- (ii) Degree - 4  
Cardinality - 5  
(1 mark each for degree and cardinality)
- (iii) ICODE can act as the primary key and it has AUTONUMBER / NUMBER data type  
(1 mark each for naming the primary key and its data type)

- (b) Differentiate between symbol and instance with reference to Flash. (1)

- Ans** Symbol is a reusable element stored in the Flash Library whereas Instance is a copy of the symbol placed on the Stage.  
(1 mark for any one valid differentiation point)

- (c) Enumerate any two applications of multimedia in entertainment. (2)

- Ans** Two applications are:
- (i) Video Mixing & Editing
- (ii) Animated Cartoons
- (1 mark each for any two valid applications)

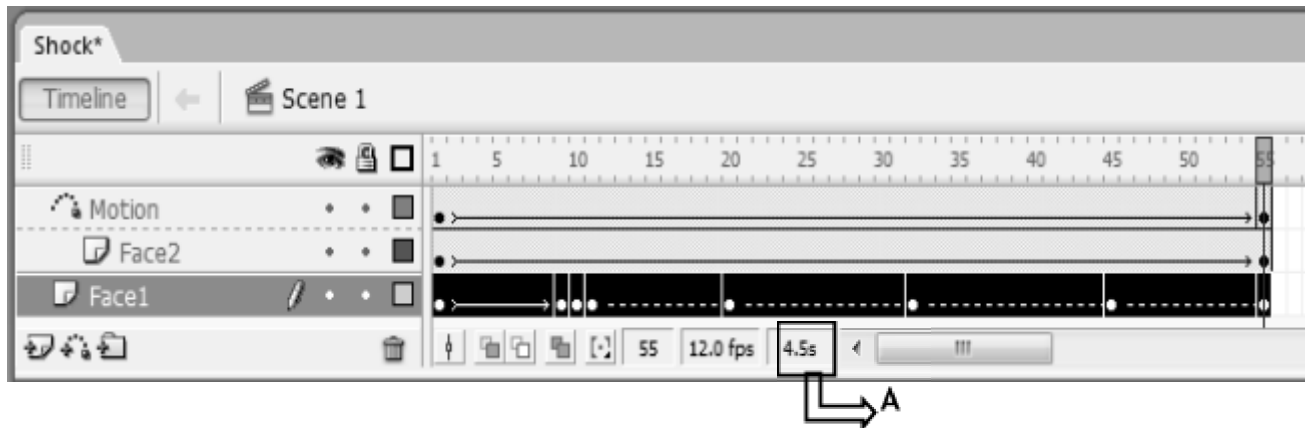
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- (d) Ashuni wants to be able to embed the flash movie created by her in her website. Which option is better suited for her - Exporting or Publishing? Also mention the extension of the web page file created if default settings are used. (2)

**Ans** Ashuni should use Publishing as she wants to embed the flash movie created by her in her website. Extension of the web page file created is .HTML  
(1 mark each for naming the option and the extension)

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. (1)  
(ii) Given the above settings, will the contents of the layer Motion be displayed in the final movie? Justify. (1)  
(iii) Given the above settings, name the active layer. (1)  
(iv) What does the value 4.5s in the area labeled as A signify?

**Ans** (i) Face2 layer acts as the guided layer  
(1 mark for naming the correct layer)

(ii) No, they will not be displayed as it is the guide layer. Only the object Face2 will be moving along that path  
(½ mark each for mentioning no and justification)

(iii) Face1 is the active layer  
(1 mark for naming the correct layer)

(iv) 4.5s denotes the elapsed time till the current frame  
(1 mark for correct significance)

b) What is the difference between shape tweening and motion tweening? (2)

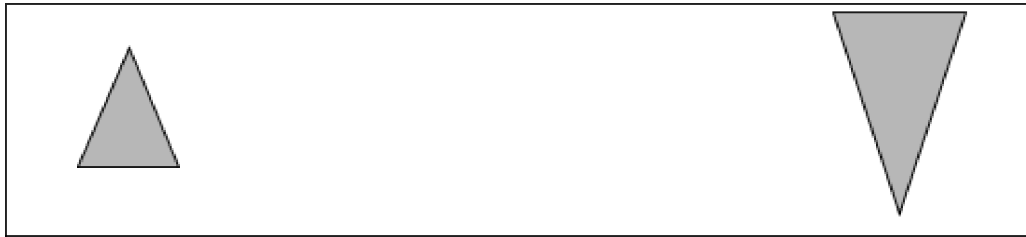
**Ans** Shape tweening can be used to change the shape of an object while animating it whereas motion tweening can be used only to provide motion, grow/shrink an object or rotate it.

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*(1 mark for any one valid differentiation point)*

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

(4)



- 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.

- Ans
- **Select frame 1** from the timeline and **drag an instance of the triangle graphic from the library** on the stage.
  - Using the arrow tool, **select the image and place it on the left hand side**
  - **Select frame 30** 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
  - Using the arrow tool, **select the image and then resize it.**
  - Using the arrow tool, **select the image and and rotate it as given.**
  - **Select all frames from 1 to 30.**
  - Right click the mouse button and **Select Create Motion Tween.**
- OR Any other equivalent method.**  
*(½ mark for each step)*

Q3. 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” (2)

```
<HTML>
<BODY>
  <A _____ = _____> _____ </__>
</BODY>
</HTML>
```

Ans

```
<HTML>
<BODY>
  <A HREF = "LearnNShare.html"> Learning is Fun </A >
</BODY>
</HTML>
```

*(½ mark for filling each blank correctly)*

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

(8)

**Sell Used Cars**

PICK OF THE WEEK

MODEL	YEAR	PRICE
ZIPCAR	2010	4,00,500
KARR NATION	2011	6,50,000
ESEUVEE	2012	3,00,000

We deal in the top models and cars that are no more than 5 years old -

- Indian
  - a. Mazda
  - b. Shani Sawari
- International
  - a. Zapster
  - b. Rolando

Sellers can send details of their cars at [shcars@gmail.com](mailto:shcars@gmail.com)

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:
  - a. Page background color is silver.
  - b. Horizontal line is blue.
  - c. Table border is red.
  - d. 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

Ans

```
<html>
  <head>
    <title>Second Hand Cars</title>
  </head>
  <body bgcolor="silver">
    <center>
      
      <font size=7 face="forte" color="purple"> Sell Used Cars</h1>
      
      <font face = "comic sans ms" size=3 color="navy">
      <hr width = 50% color="blue">
      <table width = 500 border = 5 bordercolor="red">
        <caption> PICK OF THE WEEK</CAPTION>
```

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```
<tr><th> MODEL          <th> YEAR <th>PRICE
<tr><td> ZIPCAR          <td> 2010 <td>4,00,500
<tr><td> KARR NATION    <td> 2011 <td>6,50,000
<tr><td> ESEUVEE        <td> 2012 <td>3,00,000
</table>
</center>
<ul>We deal in the top models and cars that are no more than 5 years
old
  <li>Indian
  <ol type= "a">
    <li>Mazdaa
    <li>Shahi Sawari
  </ol>
  <li>International
  <ol type= "a">
    <li>Zapster
    <li>Rolando
  </ol>
</ul>
<i> Sellers can send details of their cars at
<a href="mailto:shcars@gmail.com">shcars@gmail.com</a>
</BODY>
</HTML>
```

*(½ mark for correct use of <TITLE> tag)*

*+ (½ mark for mentioning the correct font type)*

*+ (1 mark for displaying the image correctly)*

*+ (1 mark for correctly creating the list)*

*+ (½ mark for correct usage of <HR> tag)*

*+ (½ mark for making table border color green)*

*+ (½ mark for correct use of <CAPTION> tag)*

*+ (1½ mark for correctly creating the table using <TR> and <TD> tags)*

*+ (1 mark for correctly creating the link on the text)*

*+ (1 mark to be awarded for correct use of <HTML> and <BODY> tags)*

**Q4.** Answer the following questions based on ASP

a) With the help of an example explain the difference between the working of the operators + and &. (2)

Ans + can be used to add numbers or concatenate strings whereas & is used to concatenate strings only

12 + 12 will give 24

"12" & "12" will give 1212

*(1 mark for example of each of the two operators)*

b) Explain the use of the Remove and RemoveAll methods of the Session object. (2)

Ans Remove removes a specific item from the Session object's Contents Collection whereas RemoveAll removes all the items from the Session object's Contents Collection.

*(1 mark for explanation of each of the two methods)*

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c) Name the object used for the following : (3)

- 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.

Ans i) ASPError Object  
ii) Application Object  
iii) Response Object

*(1 mark for each object name)*

d) Give the output of the following statements: (3)

- i) `Response.write((10-5+3) \ 4)`
- ii) `Response.write(LEN("TEST DAY"))`
- iii) `Response.write(STREVERSE("MADAME"))`

Ans i) 2  
ii) 8  
iii) EMADAM

*(1 mark for each output)*

**Q5. Answer the following questions based on ASP**

a) What is the use of the recordSet object? (1)

Ans The recordSet object is used to manipulate the rows of data or sets of records returned from a data source

*(1 mark for the correct usage)*

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

```
<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? (1)
- ii) Give one special feature of the Ad Rotator component of ASP. (1)
- iii) Name any one ASP component apart from Ad Rotator. (1)
- iv) Name any one ASP object and one method used in the above code (2)

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- Ans i) They mark the beginning and ending of the script to be executed on the server side  
**(1 mark for the correct significance)**  
ii) It can be used to add images as HTML rotating content.  
**(1 mark for the correct feature)**

- iii) Content Rotator  
**(1 mark for the correct name of any one component)**  
iv) Object - Server  
Method - CreateObject  
**(1 mark each for the correct object and method name)**

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. **(2)**  
ii) If the file lines.txt has 5 lines and the above code is executed then which lines will be displayed - the first, third & fifth line or the second & fourth line. **(1)**  
iii) How will the output change if the first and the third line of the loop are interchanged as shown below? **(1)**

```
<%  
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  
>%
```

Ans i) Complete Code

```
<%  
Set  
FileObj=Server.CreateObject ("Scripting.FileSystemObject")  
Set nfile= FileObj.OpenTextFile ("lines.txt")  
Do WHILE NOT nfile.AtEndOfStream  
    nfile.ReadLine  
    Response.Write("<BR>")  
    Response.Write(nfile.ReadLine)
```

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```
LOOP
nfile.Close
%>
```

*(½ mark for filling each blank correctly)*

- ii) The second & fourth line will be displayed  
*(1 mark for the correct answer)*
- iii) The first, third & fifth line will be displayed  
*(1 mark for the correct answer)*

**Q6.** Answer the following questions based on VBSCRIPT:

- a) Which of the following option correctly matches the given events with the appropriate interface element (1)

Event	Interface Element
OnClick	Text
OnMouseOver	Button
OnChange	Image

- (i) Button - OnMouseOver, Text - OnClick, Image - OnChange  
(ii) Button - OnChange, Text - OnClick, Image - OnMouseOver  
(iii) Button - OnClick, Text - OnChange, Image - OnMouseOver

Ans (iii) Button - OnClick, Text - OnChange, Image - OnMouseOver  
*(1 mark for the correct answer)*

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

```
<HTML>
<BODY>
  <SCRIPT LANGUAGE="VBScript">
    Q=29
    FOR P = 5 TO Q STEP 6
      DOCUMENT.WRITE P
    NEXT
  </SCRIPT>
</BODY>
</HTML>
```

- 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)

Ans i) 5 times  
*(1 mark for the correct answer)*

- ii) Code with DO WHILE loop



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```
<HTML>
<BODY>
  <SCRIPT LANGUAGE="VBScript">
    P=5
    Q=29
    DO WHILE P<=Q
      DOCUMENT.WRITE P
      P=P+6
    LOOP
  </SCRIPT>
</BODY>
</HTML>
(½ mark for initializing P & Q outside loop)
(½ mark for the DO WHILE keyword)
(½ mark for condition keyword)
(½ mark for LOOP keyword)
```

iii) 511172329

(2 mark for correct answer - 5,11,17, 23, 29)

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

(4)

**EduSmart Stream Choice**

Enter Child's Percentage

Stream

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.

Ans

```
<html>
<head>
<script language="vbscript">
sub b1_OnClick
percent=f1.t1.value
```

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```
if percent > 80 then
    stream = "Science"
else if percent > 60 then
    stream = "Commerce"
else if percent > 50 then
    stream = "Humanities"
else
    stream = "Not Eligible"
end select
f1.t2.value=stream
end sub
</script>
</head>
<body>
<form name="f1">
<P ALIGN=CENTER>
<B>EduSmart Stream Choice
<P>
Enter Child's Percentage:
<INPUT TYPE = "TEXT" NAME="t1">
<BR><BR>
Stream: <INPUT TYPE="TEXT" NAME="t2">
<BR><BR>
<CENTER>
<INPUT TYPE="BUTTON" VALUE="DISPLAY" name="b1">
</FORM>
</body>
</html>
```

***(1½ mark for creating the form)***

***(½ mark for associating the subroutine with the button element)***

***(½ mark for extracting the value and storing it in a variable)***

***(1 mark for the conditional statement – if statement)***

***(½ mark for displaying the stream in the text box)***

**Q7.**

- (a) Which of the following is not open source software? (1)
- (i) Chrome web browser
  - (ii) Linux Operating system
  - (iii) MS Office

Ans MS Office

- (b) What was the objective behind developing UNICODE ? (1)

Ans To have a common code for languages

***(1 mark for the correct answer)***

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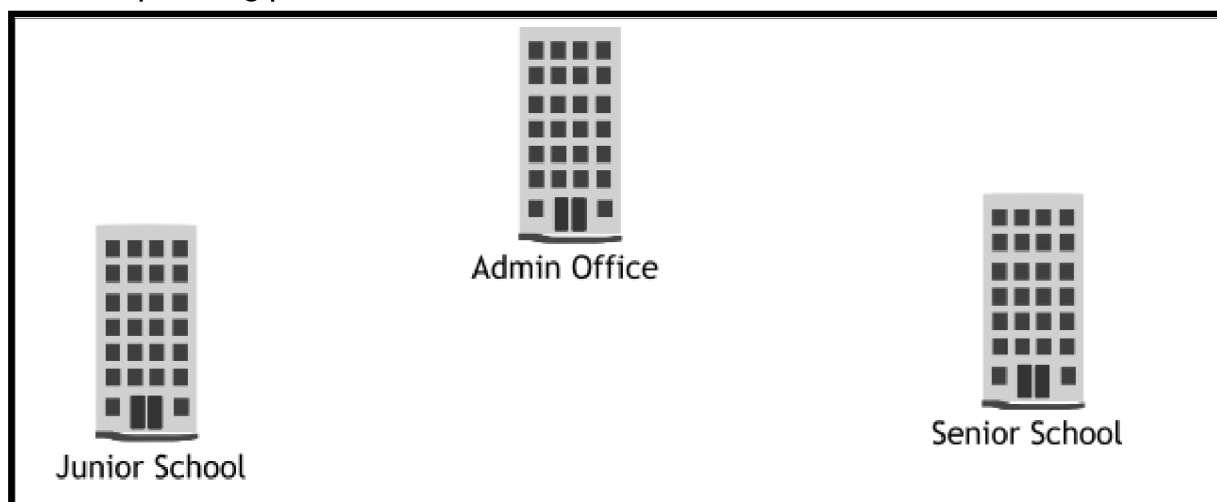
(c) Define Protocol. Give the full form of PPP. (2)

Ans Protocol is a set of rules. PPP stands for Point to Point Protocol  
(1 mark for the correct definition)  
+ (1 mark for the correct expansion)

(d) Differentiate between E-mail and chat. (2)

Ans To send E-mail the other person need not be online whereas for chatting the other person has to be online at the same time.  
(1 mark for any one valid differentiation point)

(e) EduSmart 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.



Block to Block distances (in mtrs.)

Place From	Place To	Distance
Admin Office	Junior School	60
Junior School	Senior School	120
Admin Office	Senior School	60m

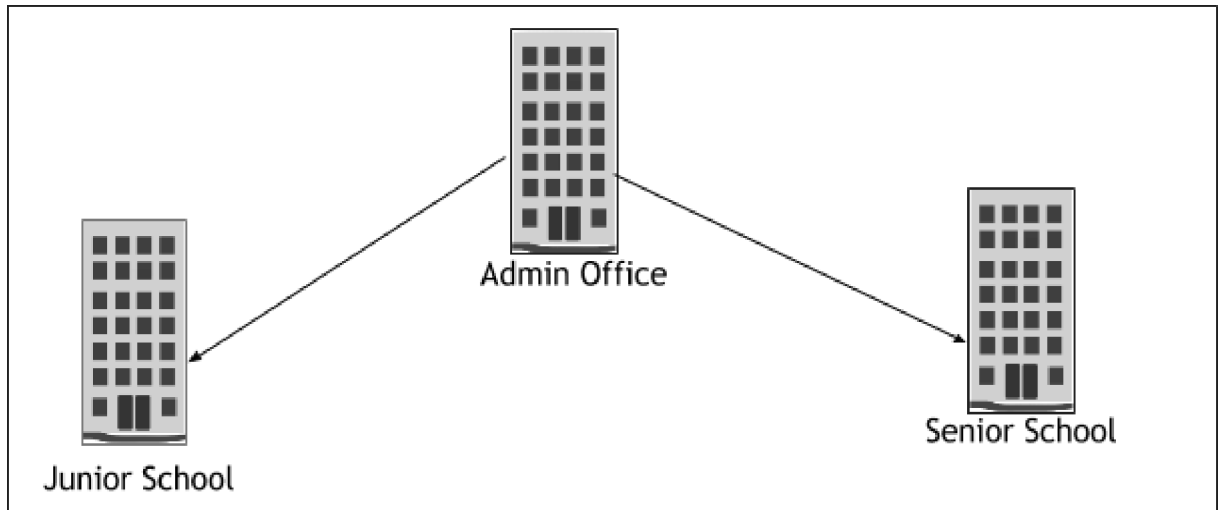
Expected number of computers in each block:

Block	No. of Computers
Admin Office	50
Junior School	30
Senior School	30

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- (i) Draw the most appropriate cable layout to connect all three blocks for efficient communication. (1)

Ans



***(1 mark for the correct cable layout as shown or any other valid layout)***

- (ii) Name the block that is most suitable to house the server for this campus with a suitable reason. (1)

Ans Admin Office

***(1 mark for the correct block name)***

- (iii) Which type of network, out of the following, is formed by connecting the computers of these three blocks? (1)

- PAN
- LAN
- MAN

Ans LAN

***(1 mark for the correct answer)***

- (iv) Which wireless channel out of the following should be chosen by the School Management to connect to their campus in another country? (1)

- Infrared
- Microwave
- Satellite

Ans Satellite

***(1 mark for the correct answer)***