1. Question given below are based on Ms-Access
   (a) Name the following.
      (i) A data type used for logical value (true/false) in the database.
      (ii) A key that does not allow Null values and must always have a unique value.
   (b) Differentiate between a Record and a Field.
   (c) Study the following data and answer the questions given below:

   **Table: Pancard.mdb**

<table>
<thead>
<tr>
<th>Permanent_Acc_Num</th>
<th>Name</th>
<th>Father Name</th>
<th>Date of Birth</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATBPE3452G</td>
<td>Dr. Amit Sarna</td>
<td>Sh. Mahipal Gupta</td>
<td>12-9-1970</td>
</tr>
<tr>
<td>SDFG324ERG</td>
<td>Mr. Mahinder Goel</td>
<td>Sh. Keshav Goel</td>
<td>19-10-1975</td>
</tr>
<tr>
<td>DFGHJ234TY</td>
<td>Mr. Sumit Wadhwa</td>
<td>Sh. S.K. Wadhwa</td>
<td>8-9-1980</td>
</tr>
</tbody>
</table>

   **Table: Moneytransaction.mdb**

<table>
<thead>
<tr>
<th>Permanent_Acc_Num</th>
<th>Debit</th>
<th>Credit</th>
<th>Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDFG324ERG</td>
<td>45000</td>
<td></td>
<td>145000</td>
</tr>
<tr>
<td>ATBPE3452G</td>
<td></td>
<td>676543</td>
<td>32678</td>
</tr>
<tr>
<td>SDFG324ERG</td>
<td></td>
<td>65432</td>
<td>79569</td>
</tr>
</tbody>
</table>

   (i) Suggest the data types that should be used for each of the fields in the pancard table.
   (ii) Write the relationship between “Pancard” and “Moneytransaction” table.
   (iii) Name the field that can act as a primary key in “Pancard” table and name the foreign key of “Moneytransaction” table.

   (d) Write a short note on Video on Demand.
   (e) Elaborate the use of multimedia in entertainment.
   (f) A Greeting card company wants to maintain a website. They would like to publish still images of cards and gifts available in their store. The size of the image files should not exceed 320*420 pixels. Suggest the file format and justify.
2. Question given below are based on Macromedia Flash
   (a) Write the code to insert a flash movie into a HTML file?
   (b) What are the benefits of vector graphics over bitmap Graphics?
   (c) Differentiate between Publishing and Exporting a movie.
   (d) Observe the figure given bellow and do as directed:

   ![Image](image.png)

   - The image on the left side shows the position of the image for frame 1.
   - The image on the right side shows the position of the image for frame 50.
   - The dotted line shows the path of motion of image.
   Write procedure and property setting for animating the above scenario.

3. Question given below are based on HTML
   (a) What is the main difference between `<INPUT TYPE="TEXT">` and `<INPUT TYPE="PASSWORD">`?
   (b) Write the HTML code to generate a Web Page in the format given below:

   Consider the following while writing the HTML code:
   
   (1) Background of page pink, link colour is red, active link color is green and visited link colour is brown.
   (2) Title of the page is "Industry".
   (3) Heading of the page is gray.
   (4) Image used is "costcutting.jpg"
   (5) Caption of table is sky blue.
   (6) Table border is blue and of size 2.
   (7) First row of table has background color "cyan"
   (8) Pages linked to:
   - Analytical as "al.html"
   - synthetical as "syn.html"
   - Processing as "pro.html"
   - assembling as "abi.html"
Manufacturing Industries

Manufacturing is the production of goods for use or sale using labor and machines, tools, chemical and biological processing, or formulation. The term may refer to a range of human activity, from handcraft to high tech, but is most commonly applied to industrial production, in which raw materials are transformed into finished goods on a large scale. Such finished goods may be used for manufacturing other, more complex products, such as aircraft, household appliances or automobiles, or sold to wholesalers, who in turn sell them to retailers, who then sell them to end users - the "consumers."

1. Manufacturing
   - Analytical
   - Syntactical
   - Processing
   - Accounting

2. Trade
   - International Trade
   - Wholesale
   - Retail
   - Import
   - Export

Table of Contents

4. Question given below are based on ASP

(a) Differentiate between built-in function and User defined function.

(b) What are the parameters for opening a recordset?

(c) Explain the statement <% SET rs_obj=nothing %>

(d) Find output
   (i)  response.write(strrev(reverse(mid("card game",sqr(9 ),day( date )/7))))
       (Assuming today's date is: 14th January).
   (ii) Response.write((case (mid("description",8,instr("performed","rf")))).
   (iii) Response.write(15<8 and not 5<=3).
5. Question given below are based on ASP

(a) Differentiate between optimistic and pessimistic locking of a recordset.  

(b) Name the following:

(i) The built-in object used to share data between various client

(ii) The expansion of MSWC.

(c) Give the output for the following code segment:

```vbscript
<% 
    dim l 
    Application("item 1")=1
    Application("item 2")=2
    Application("item 3")=3
    For l=1 to Application.contents.count
        Application.contents(l)=Application.contents(l)+1
    Next
    Response.write(Application("item 1"))
    Response.write(Application("item 2"))
    Response.write(Application("item 3"))
%>
```

(d) Underline the errors in the following code and rewrite the correct code:

```vbscript
option explicit
a=10
sum=0
Do until a=1 step -1
    response.write("answer is "&a)
    sum=sum+a
end
```

(e) Write an ASP program to read the contents of a file "mmwt.txt" and display in upper case.

6. Question given below are based on VB-Script

(a) Name four events can be handled in VB-Script.
(b) Which function you will use for the following?

(i) To retrieve largest valid index for an array.

(ii) To return a Boolean value that indicates whether a specified expression can be evaluated as a number.

(c) Give the output for the following code segment:

```vbscript
<script language="vbscript">
dims
dim r
s="Server"
r="Pages"
sub cha(a, b)
a=lcase(s),
b=ucase(r & a)
end sub
call cha(s, r)
document.write("<br>" & s & r)</script>
```

(d) Change the following script using For next without affecting the output:

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

(e) Write a HTML code to create a form for VAT calculation. It contains a textbox to accept order value as shown below. The first textbox accepts input from the user and the second textbox displays the value after adding VAT of 12.5% to the value. Include the VBScript code which contains a user-defined function required to be called when the user changes the value in the first text box.

```
<!DOCTYPE html>
<html>
<body>
<h2>High Tech Computer Accessories</h2>
<form>
  <label for="order_value">Order Value:</label>
  <input type="text" id="order_value" value="2500">
  <label for="vat">VAT:</label>
  <input type="text" id="vat" value="2812.50">
  <button type="button" onclick="calculateVAT()">Calculate VAT</button>
</form>

<script type="text/vbscript">
function calculateVAT()
  var order_value = document.getElementById("order_value").value;
  var vat = order_value * 0.125;
  document.getElementById("vat").value = vat;
</script>
</body>
</html>
```
7.

Question given below are based on Web Technologies:

(a) What is the significance of HTTP and FTP?

(b) Differentiate between Hub and Switch.

(c) Explain the following terms:
   (i) PANGO
   (ii) FSF

(d) University of correspondence in Delhi is setting up the network between its different wings. There are 4 wings named Science (S), Journalism (J), Arts (A) and Home Science (H):

   Center to center distances between various blocks:
   A to S: 100m
   A to J: 200m
   A to H: 400m
   S to J: 300m
   S to H: 100m
   J to H: 450m

   Number of computers:
   Wing A: 150
   Wing S: 10
   Wing J: 5
   Wing H: 50

   (a) Suggest a suitable Topology for networking the computer of all wings.

   (b) Name the wing where the server to be installed. Justify your answer.

   (c) Suggest the placement of Hub/Switch in the network.

   (d) Mention an economic technology to provide internet accessibility to all wings.