CLASS XII
SAMPLE PAPER-01
Multimedia & Web Technology

Note :
- **Please check that this question paper contains 7 questions..**
- **Answer the questions after carefully reading the text.**
- **Please write down the serial number of the question before attempting it .**

Q 1:- Answer the following questions based on Database.

a) Define RDBMS. What do you understand by cardinality and degree of a relation?   1

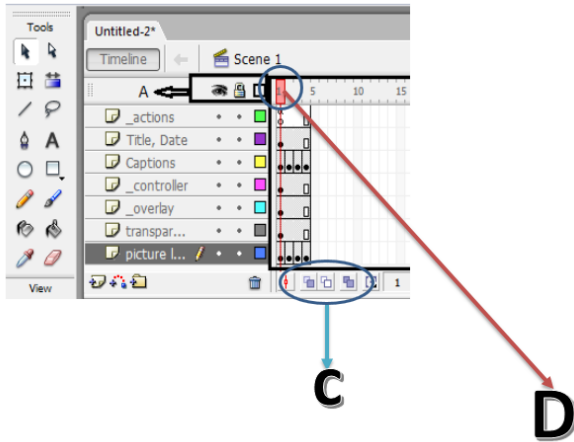b) Study the following data and answer the question given below: 6

Table: Latest car

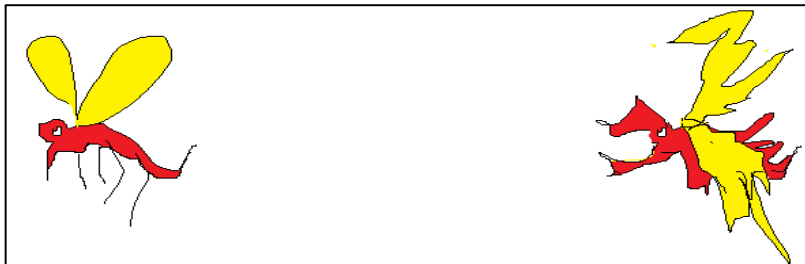| CarId	CarName	NoOfModels	LaunchDate	Manufacturer
101	SX4	5	10/08/2016	Maruti Suzuki
102	OPTRA	2	29/5/2016	Chevrolet
103	OCTAVIA	3	19/5/2016	Skoda
104	AVEOU-VA	4	21/1/2016	Chevrolet
105	INDIGO	5	14/9/2016	TATA

   i. Suggest the data types for the CarId , CarName, NoOfModels, LaunchDate fields.

   ii. Name the field which can act as a primary key in the table Latestcars.

   iii. If the manufacturer details are to be stored in a separate table , then suggest the names of any two mandatory fields to be included in the new table.

   iv. What will be the extension of the table "**Latest car**" created in Access?

   v. Both **CarId** and **NoOfModels** attributes contain numbers but there is one major difference in their data type. Explain.

   vi. What kind of relationship will exist between the given table LatestCar and the newly created table manufacturer?

c) What are the advantages of a digital library over a traditional library?   1

d) Sharmli has created a symbol in Flash which can be clicked , write the type of the symbol that she has created.   1

e) Name the two popular image file format.   1

2. Question below are based on Macromedia Flash:

. a) Study the figure given below and answer the question that follow:

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(i)   Identify the areas labeled as C and D in the above figure.   1

(ii)   Explaining the term stacking order of layers and name the layer that will be shown on the top in
        the final movie.   1

(**iii**)   What will be the effect of decreasing the frame rate of this movie from 12.0 fps to 0fps?   1

b) What is a scene? How it is different from layers?   2

c) Differentiate between motion guide layer and a mask layer.   1

d) Observe the figure given bellow and do as directed :   4

- The image on the left hand side shows the position and size of the live chikungunya mosquito image for
  frame1.
- The image on the right hand side shows the position and size of the dead chikungunya mosquito image
  for frame 40.

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

3.Questions given below are based on HTML :

    a) Write the HTML code to create a framed web page in the following format.   2

a.html	c.html
	b.html

    b)   Write the HTML code to generate a Web Page in the format given below :   8

MUNNAR -KERALA
God's Own Country

Munnar is a town and hill station located in the *Idukki* district of the southwestern Indian state of Kerala. Munnar is situated at around 1,600 metres (5,200 ft) above sea level, in the Western Ghats range of mountains.

The name Munnar is believed to mean **"three rivers"**, referring to its location at the confluence of the **Mudhirapuzha, Nallathanni** and **Kundaly rivers.**

Contents
1.   Flora and fauna
   - Kurinjimala Sanctuary
   - The Chinnar Wildlife Sanctuary
   - Manjampatti Valley and the Amaravati reserve forest of Indira Gandhi Wildlife Sanctuary
2. Endemic species
3. Land ownership
4. Geography and climate

Tourist places in Munnar

Nearest Place	Distance from Munnar	Main Attraction
Mattupetty	13 km	The Mattupetty lake and dam and highly specialised dairy farm, the Indo-swiss live stock project. Over 100 varietes of high yielding cattle are reared here
Eravikulam National Park	15 km	The 97 sq. km. park is situated in the Devikulam Taluk and is home to the Nilgiri Tahr.
Pothamedu	6 km	Pothamedu offers an excellent view of the tea, coffee and cardamom plantations in Munnar

Visit us on www.**munnar**.com

Consider the following while writing the HTML code

1. Background colour of the page should be "green", text color should be "Maroon" and link colour should be "blue".
2. Title of the page is "Munar".
3. Text colour of main heading on the page should be "Brown".
4. Font face of text in the page should be "Times New Roman".
5. Picture used in the page is the file "wow.jpg and tea.jpg.
6. Use the concept of nested list to display the given list.
7. Pages linked to :
   - Flora and fauna   flower.html
   - Endemic species   animal.html
   - Land ownership   govt.html
8. The table should have a caption "Tourist places in Munnar", a border of 2 pixels and the background color of the first row should be "Aqua".
9. The bottom message is of size 2 and linked to *www.munnar.com* web site .

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Q4. Answer the following based on PHP.
    a) Name any two technologies which are equivalent to PHP.   1
    b) Explain with example the difference between ++x and x++.   2
    c) What are superglobals? Give two examples.   2
    d) Differentiate between Echo and Print Statement.   1
    e) What is PHP die() method?   2
    f) Find output   2
                a)Echo   date("F j,Y")
                b)Echo   strncasecmp("watch co." , "water",3)

Q5. Answer the following based on PHP.
    a) What does the mysql_select_db () function do? Write syntax.   1
    b) Explain with an example how to register a session in PHP.   1
    c) Find the errors in the following PHP code and rewrite corrected code   2

```
<?
Sum=0;
Echo ("the output is:" . "<br>");
For($a=$a-1;$a+=3;$a<=10)
{
$sum=$sum+$a*$a;
}
?>
```

    d) What will be the output of the following code segments   2

```
<?php
function change($x,$y)
{
$x=$x+$y;
$y=$y*$y
echo ($x . $y . "<br>");
}
$p=2;
$q=3;
$r=1;
$s=10;
change($p,$s);
change($q,$r);
@>
```

    e) Write a program to read a text file named xyz.txt and count the number of words.   `4

    Q6. Answer the following based on javascript
a) Differentiate between JOIN() and SORT() methods available in javaScript.   1
b) Change the following script using for loop without affecting the output: 2
<script language="javaScript">

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```
function result()
{
var i,r,rev,k
i=6
k=3
while(i<=12)
{
k=k/i
i=i+4
}
}
</script>
```

c) Give the output for the following script code: 2
```
<script Language="javaScript">
var arr=new Array(4)
for (i=0;i<4;i++)
{
arr(i)=i
}
for (i=0;i<4;i++)
{
If(i%2==0)
{
document.write(arr(i)*4)
}
Else
{
Document.write(arr(i)*8)
}
</Script>
```

d)Observe the code segment given below and answer the questions that follow: 2
```
<script language="javascript">
Function checktriangle(s1,s2,s3)
{
If(s1+s2>s3 && s2+s3>s1&&s1+s3>s2)
{
Document.write("Triangle can be formed")
}
Else
{
Document.write("Triangle can not be formed")
}
```
a)Name logical, arithmetic and relational operators used in the above code segment.
b)what will be the output if s1=8, s2=6 and s3=2.

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e) Write the HTML code for creating the form given below and also write the embedded JavaScript code for the click event of the "TOTAL COST" button, such that it displays cost in a separate display boxes The costs of products are given below :   3

      Shirt   :   Rs. 800
      T-Shirt   :   Rs. 750

If the user enters product as "Shirt" and selects 3 unit, then it should display the message "Your bill amount is Rs. 2400" in a message box.

Q7.
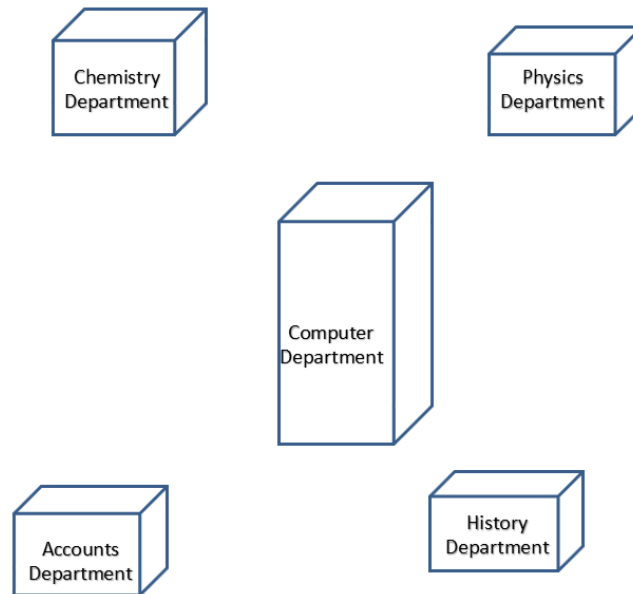a) Write any two advantages for using optical fiber cable over coaxial cable and twisted pair cable. 1
b) Explain the following terms: 2
       i. GSM
      ii. PROTOCOL
c) Compare e-mail and video conferencing.   1
d) Write the applications of following open source software   `   2
       i. Impress
      ii. MySql
     iii. GNU
     iv. Python

e)Uttaranchal College of advanced studies has 5 departments where it runs its operations (shown below): 4

The distances between the different departments are given below :

Between Chemistry and Computer   14 Mts.
Between Computer and Accounts   60 Mts.
Between Physics and History   55 Mts.
Between History and Accounts   130 Mts:
Between History and Chemistry   95 Mts.
Between Physics and Accounts   35 Mts.
Between Accounts and Chemistry   25 mts.
Between Physics and Chemistry   25 mts.

Each wing contains following number of computers :

Departments	**No. of Computers**
Physics	10
History	70
Chemistry	305
Accounts	103
Computer	3

Answer the following questions based on the above given information:

(i) Suggest suitable cable layout(s) for connecting the wings.Also mention the topology.
(ii) Where do you think the server should be placed and explain why? Give two reason.

(iii) Suggest the transmission medium should be used if the organisation wants the most efficient option to connect Delhi Head Office. Also mention the type of network.

(iv) Where and why should repeaters,Modem and switch be used?

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