Series : SGN/C

Roll No.

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

- Please check that this question paper contains **8** 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 minute 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 students will read the question paper only and will not write any answer on the answer-book during this period.

MULTIMEDIA AND WEB TECHNOLOGY

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

Note :

  (i)   ***All*** *questions are compulsory.*

  (ii)   *Answer the questions after carefully reading the text.*

1.   (a)   Write name of one RDBMS.   **1**

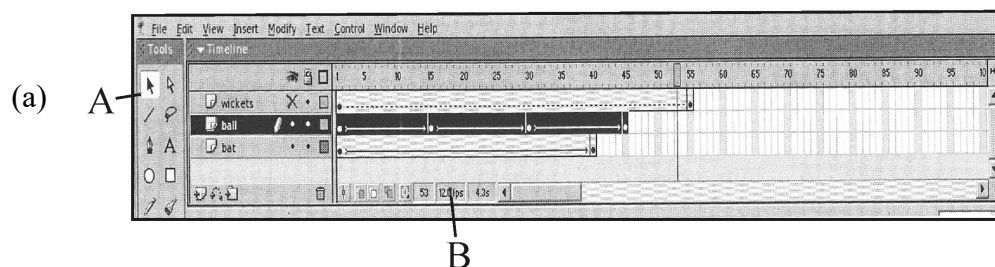   (b)   Study the following data and answer the questions given below:

Table: Workshop

WorkshopId	Title	NumSpeakers	NumberInvites
551	Time Management	3	50
552	App Development	1	40
553	Development & Planning	2	20
554	Marketing Strategies	2	25

Table : WrapUP

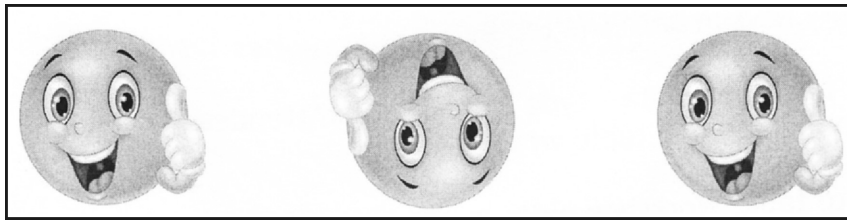| WorkShopeId	ActualAttendees	HighestAttendee
551	39	Associate Director
552	32	CEO
553	18	Sr. Executive
554	20	Sales Manager

    (i)   What is the Degree and Cardinality of table WrapUP ?   **1**

    (ii)   Name the Primary keys in both the tables.   **1**

    (iii)   What should be the data type of 'ActualAttendees' column and 'HighestAttendee' column in table WrapUP ?   **1**

    (iv)   With reference to table Workshop write command in SQL-

    To display WorkshopId,NumberInvites for those workshops in which number of speakers were more than 2.   **1**

(c)   Write the full form of PNG.   **1**

(d)   Name any two sound formats that are most popularly used while designing web pages.   **1**

(e)   In an amusement park, the trainer wants to give simulation of a cockpit. Which of the following multimedia technology will help him :   **1**

- Video on Demand

- Virtual Reality

- Video Conferencing

(f)   Write the names of any two components of multimedia.   **2**

2.   Answer the following questions based on Macromedia Flash :

(a)

    (i)   Write the name of active layer.   **1**

    (ii)   Write the name of layer where tweening is not done properly.   **1**

    (iii)   Write the use of label A and B.   **2**

(b) Write two points of difference between symbol and instance. **2**

(c) Consider the figure given below and do as directed : **4**

- The emoticon on the right hand side shows the position for frame 20.

- The emoticon on the left hand side shows the position for frame 1.

- The emoticon in frame 1 rotates to frame 20 as shown.

- The emoticon is saved in Flash Library.

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

3. Answer the following questions based on HTML :

(a) Write the name of tag and attribute to enter single line of text in a form. **2**

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

Consider the following while writing the HTML code

(1) Title of the page should be "Search Engines"

(2) Background of page is "white", Link colour should be "blue"

(3) Heading of page is "brown"

(4)   Picture used in the page is the file "search-engines.png"

(5)   Text in 1st paragraph is red

(6)   Table should have a border of width 1, border of table should be "green".

(7)   Pages linked to :

      History as   "evol.html"

      How Search Engines Work as   "work.html"

      Refrences as "ref.html"

(8)   Bottom message is of size 2 and is mail link to contact@abc.com

4.   Answer the following questions based on PHP :

(a)   Following code has some errors. Rewrite the above code correctly and underline the changes.   **2**

```
< ?PHP
$Total=0
$count = 10
Do{
echo ($count+"<br>") ;
}while ($count<l) ;
?>
```

(b)   Write the output of following code :   **2**

```
< ?php
function test(&$var)
{
    $var++;
}
$a=5;
echo  test ($a) ;
? >
```

(c)   Write the names of two PHP superglobals which collect the form data.   **3**

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

(i)   echo substr("Multimedia and Web Technology", 11,3) ; ;

(ii)   echo 6+2*(3 – 4)/2 ;

(iii)   echo ltrim("Examination" , "Ex");

5. Answer the following questions based on PHP :

(a) Rewrite the following code using if.. .else if   **2**

```php
< ?php
$a = "1";
switch ($a)
{
case 1 :
    print "hi";
case 2 :
    print "hello";
default :
    print "hil";
}
? >
```

(b) Name the PHP function to   **2**
  (i) Convert the string to uppercase
  (ii) Return the unix timestamp for a date

(c) Following is the code to create a connection to server and to create a database named DB1 in MySql. Fill in the blanks to complete the code: **3**

```php
< ?php
$servername = "localhost";
$username = "username";
$password = "password";
// Create connection
$conn = mysqli_ _____($servername,
$username, _____) ;
// Check connection
if _____{
die("Connection failed: " . mysqli_connect_error());
}
// Create database
$sql = "_____ DATABASE DB1";
if (mysqli_query($conn, _____))
{
echo "Database created successfully";
}
else
{
echo"Error creating database:".mysqli_error($conn);
}
mysqli_close (_____) ;
? >
```

(d) Create a text file named try.txt using PHP and write the following lines into it. **3**

Hello students!

How are you ?

All the best for exams.

Then write the code to count the no. of characters(including spaces)

6. Answer the following questions based on JavaScript :

(a) The following code has error(s). Rewrite the correct code underlining all the corrections made : **2**

```
integer counter=0; i=2;
for(num =i; num>=1; num- -);
{
If i%num = 0
{
counter = counter + 1;
}
}
```

(b) Give the output of the following set of statements : **2**

```
sum1=0;
for(y=1; y<=5; y+=1)
sum1 = sum1 + y;
document.write(sum1) + "<br>" + y;
```

(c) Write the value that will be stored in variable p after execution of following code. How many times will the loop execute ? **2**

```
var y,  x,  p;
y = 3;
x = 5;
p = 0;
do
{
p = p + x;
y = y - 1;
}
while (y > 0);
```

(d) Write HTML code along with JavaScript to display a page as shown : **4**

Choose the image file [Browse...] delhi-metro-map.gif

[click]

The user should be able to choose an image file from his/her computer and on click of button the image should be displayed.

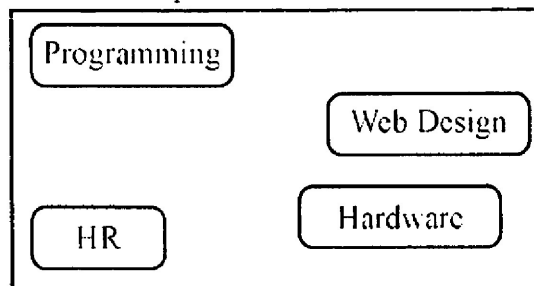7. Answer the following questions based on Communication and network concepts :

(a) Amit and John have connected their mobile phones to transfer a song. **2**

(i) What type of network is formed ?

(ii) Which communication media out of coaxial cable, bluetooth, satellite link should they use to transfer the file ?

(b) Write the full form of WLL. **1**

(c) Why is a switch called an intelligent hub ? **1**

(d) Define the terms Firewall, Cookies, Hackers and Cracker. **2**

(e) Go-Fact corporation is a Hyderabad based company, which is planning to set up training campuses in various cities in next 3 years. Their first campus is coming up in Pune.

At Pune campus, they are planning to have 4 different blocks for HR, Web Design Training, Programming Training and Hardware Training.

Each block has number of computers, which are required to be connected in a network for communication, data and resource sharing.

As a network consultant of this company you have to suggest the best network related solutions for them for issues/problems raised in (i) to (iv), keeping in mind the distances between various blocks/locations and other given parameters.

PUNE Campus

Programming

Web Design

Hardware

HR

Shortest distances between various blocks/locations :

Programming Block to HR Block	60 metres
Programming Block to Web Design Block	50 metres
Programming Block to Hardware Block	70 metres
HR Block to Web Design Block	120 metres
HR Block to Hardware Block	85 metres

Number of Computers installed at various blocks are as follows

HR Block	10
Programming Block	100
Web Design Block	60
Hardware	40

(i) Suggest the most appropriate block/location to house the SERVER in the PUNE Campus (out of the 4 blocks) to get the best and effective connectivity. Justify your answer.   **1**

(ii) Suggest a device/software to be installed in the PUNE Campus to take care of data security.   **1**

(iii) Suggest the best wired medium and draw the cable layout (Block to Block) to efficiently connect various Blocks within the PUNE campus.   **2**

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