

Roll No.

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

- Please check that this question paper contains **10** 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) Study the following data and answer the questions given below :

Table : Salesperson

SID	Name	Phone	DOB	Salary	Area
S101	Amit Kumar	98101789654	1967-01-23	67000.00	North
S102	Deepika Sharma	99104567834	1992-09-23	32000.00	South
S103	Vinay Srivastav	98101546789	1991-06-27	35000.00	North
S104	Kumar Mehta	88675345789	1967-10-16	40000.00	East
S105	Rashmi Kumar	98101567434	1972-09-20	50000.00	South

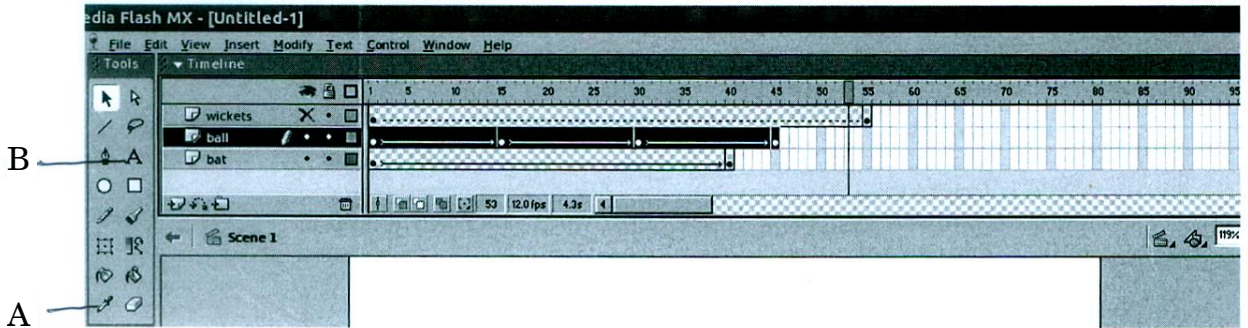
- (i) Which key can be chosen as the primary key of the above table ? 1
- (ii) What is the degree and cardinality of the given table ? 1
- (iii) Write the suitable data types of SID and DOB columns. 1
- (iv) With reference to the above given table, write commands in SQL to
- (A) Insert First record in the table.
- (B) Display the names of employees who have salary higher than 45000. 2
- (b) Which multimedia component has extension as .MOV ? 1
- (c) Name any two image formats that are most popularly used while designing web pages. 1
- (d) In an amusement park, the trainer wants to give the simulation of a cockpit. Which of the following multimedia technologies will help him ? 1
- Video on Demand
 - Virtual Reality
 - Video Conferencing
- (e) Mention any one use of multimedia in 2
- (i) Education
- (ii) Entertainment

2. Answer the following questions based on Macromedia Flash :

(a) What is a blank key frame ? 1

(b) Write any two types of symbols that are in Flash. 1

(c)



(i) What is the name of the hidden layer ? 1

(ii) Which layer is the current layer ? 1

(iii) What are the names of the tools labelled as A and B ? 2

(d) Consider the figure given below and do as directed :



- The arrow on the right hand side shows the position for frame 20.
- The arrow on the left hand side shows the position for frame 1.
- The arrow in frame 1 rotates to frame 20 as shown.
- The image of the arrow is saved in Flash Library.

Write the procedure and property settings for animating the above scenario. 4

3. Answer the following questions based on HTML :

(a) Write the name of tag and attribute to create a radio button in a form. 2


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





Open Source Initiative

OSI was jointly founded by Eric Raymond and Bruce Perens in late February 1998 with Raymond as its first president, Perens as vice-president, and an initial Board of Directors including Brian Behlendorf Ian Murdock, Russ Nelson, and Chip Salzenberg.

OSI Trademark Guidelines:

1. Open Source Initiative Trademark Policy
2. Usage That Does Not Require Written Permission
 - o Noncommercial and community web sites
 - o Business web sites
3. Usage that Requires Prior Written Approval



 open source initiative	Never Stray from the Color Palatte
 open source initiative	Never Switch the Colors
 open source initiative	Do not change spacing, alignment of the design elements
 open source initiative	Never Stretch or Distort the Logo

For more details Mail to us

Consider the following while writing the HTML code :

1. Title of the page should be “Open Source Initiative”.
2. Heading of the page is “Brown”.
3. Picture used in the page is the file “OSI.jpg”.
4. Text in paragraph is red.
5. Table should have a border of width 1, border of the table should be “green”.
6. Images used in the table are :
img1.jpg, img2.jpg, img3.jpg, img4.jpg

7. Pages linked to :
- Open Source Initiative Trademark Policy as “trade.html”.
 - Usage That Does Not Require Written Permission as “perm.html”.
 - Usage That Requires Prior Written Approval as “prior.html”.
8. Bottom message is of size 2 and is mail linked to contact@abc.com.

4. Answer the following questions based on PHP :

- (a) Identify the errors and rewrite the following code underlining the changes :

2

```
<? PHP
for ( $x == 0; $x < = 8; $x ++)
{
If ( $x == 6)
{
continue;
}echo $x;
>
```

- (b) (i) What is a constant ? Declare a constant MAX assign the value 15.

2

(ii) Write any two features of PHP.

1

- (c) Write any two points of difference between echo and print statements.

2

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

3

(i) echo substr(“Multimedia and Web Technology”, 0,2) ;

(ii) echo 20+(3+5)%2;

(iii) echo date(“M-d-Y”, mktime(0,0,0,14,1,2001));

5. Answer the following questions based on PHP :

(a) Write the output of the following code :

2

```
<?php
    $fruits = array ("mango", "apple", "pear",
    "peach");
    $fruits = sort($fruits);
    for($x = 0; $x<=3; $x++)
    echo ($fruits[$x]. "<br>");
?>
```

(b) Write the name of the PHP built-in function :

(i) To return reverse of a string.

(ii) To format a local time/date.

2

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

3

```
<?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 number of vowels in it.

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

```
var j;  
var i =15;  
var flag = 1;  
while( j = 2 j < i; j++)  
{  
  If(i % j = 0)  
  {  
    flag == 0;  
    break;  
  }  
}
```

- (b) Rewrite the given code using switch.... case :

2

```
var x,y,z,w;  
x=0; y=0; z=0; w=0;  
if( a == 1)  
x++;  
else if(a ==2)  
y++;  
else if(a ==3)  
z++;  
else  
w++;
```

(c) Write the values of c and d after execution of the following code : 2

```
var a = 1;
var b = 2;
var c;
var d;
c = ++b;
d = a++;
c++;
```

(d) Write HTML coding with form and Javascript to display the output as shown : 4

Click on your stream
 Science
 Commerce
 Humanities

When the user selects his stream and clicks on the button, then his choice should be displayed as shown :

Click on your stream
 Science
 Commerce
 Humanities

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

(a) When is a repeater used in a computer network ? 1

(b) Write the full form of GPRS. 1

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

(i) What type of network is formed ?

(ii) Which communication media out of coaxial cable, bluetooth and satellite link should they use to transfer the file ? 2

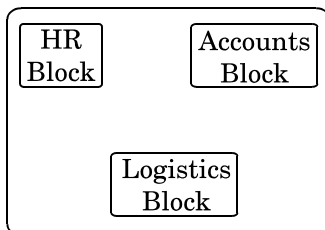
(d) Explain the following terms :

- (i) IP Address
- (ii) Video Conferencing

(e) Hi Speed Technologies Ltd. is a Delhi based organization which is expanding its office setup to Chandigarh. At Chandigarh office campus, they are planning to have 3 different blocks for HR, Accounts and Logistics related work. Each block has a number of computers which are required to be connected in a network for communication, data and resource sharing.

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

CHANDIGARH Office



Shortest distances between various blocks/locations :

HR Block to Accounts Block	400 metres
Accounts Block to Logistics Block	200 metres
Logistics Block to HR Block	150 metres
DELHI Head Office to CHANDIGARH Office	270 km

Number of Computers installed at various blocks are as follows :

HR Block	70
Accounts Block	50
Logistics Block	40

- (i) Suggest the most appropriate block/location to house the SERVER in the CHANDIGARH Office (out of the 3 blocks) to get the best and most effective connectivity. Justify your answer. 1
- (ii) Suggest the best wired medium and draw the cable layout (Block to Block) to efficiently connect various Blocks within the CHANDIGARH office compound. 2
- (iii) Suggest a device/software and its placement that would provide data security for the entire network of the CHANDIGARH office. 1