Roll Number

INDIAN SCHOOL MUSCAT
FINAL TERM EXAMINATION

MULTIMEDIA AND WEB TECHNOLOGY

CLASS: XII   Sub.Code: 065   Time Allotted: 3Hrs.

26.11.2018   Max .Marks: 70

GENERAL INSTRUCTIONS:
1.All the Questions are compulsory
2. Read the Question Carefully before writing the answer.

1. (a) Give the full form of GIF. Graphical Interchange Format   2

    (b) Name any two popular sound formats that are mostly used while designing web pages.   2
         wav or .aif or .aiff or .mp3 or .wma or .asf or .rm or .ra or MIDI.

    (c) Name any one software used for image editing and for sound editing.   2
         Image Editing (Any one)
         ●GIMP
         ●Paint.NET
         ●Photo Pos Pro
         ●Pixlr Editor
         ●PhotoScape
         ●Google Nik
         ●Blender
         ●Photoshop
         Sound Editing (Any one)
         ●Audacity
         ●SoundForge
         ●Ardour
         ●Traverso
         ●QTractor
         ●Linux Multimedia Studio (LMMS)

    (d) .MOV is the extension of which type of files ? Quick time movie or Movie File.   2

    (e) Define Flash. Write any two usage of Flash. Explanation   2

2. (a) How is a Flash movie embedded in HTML ? The Flash movie can be embedded in HTML   2
         using the publish option/export option
         Method 2
         The Flash movie can be embedded in HTML **using the <object>tag** .
         For example:
         <object width="400" height="50" data="CBSE.swf"></object>

Method 3
The Flash movie can be embedded in HTML **using the <embed>tag** .

(b) Differentiate between stage and workarea in flash. The **Stage** is the large white rectangle where you add every piece of content to be viewed
in your movie. This is the place holder for all the object in the movie.
The gray area around the stage is known as **work area** . This can be used to place the animated objects that appear or disappear from the edge of thes stage.

2

(c) What do you mean by a key frame ?Key frame is where we define the change in frame.

1

(d) What is the use of a locked layer ?Locked layer is useful when we don't want any editing in that layer.

1

(e)   Writing each step 1 mark =1+1+1+1=4

4

3. (a)   Answer the following questions based on HTML :
Explain the use of HTML tag to embed an audio clip in HTML file. ●As the question is ambiguous.
●Full 2 marks to be awarded on use of any relevant tags such as

EMBED/OBJECT/AUDIO/VIDEO.

2

(b) Write the HTML code to generate a Web Page in the format given below:
        Following proper syntax with all the links – 8 marks

8

4. (a) Identifying the error and rewriting the code 2 marks

    2

(b) What is the importance of $_POST over $_GET ?   2
- There is no restriction on data size to be sent.
- It can be used to send binary as well as ASCII.
- Form submission with POST can not be bookmarked.
- Data is invisible and more secure.

(c) Using PHP, create a text file saved as
C:\xampp\htdocs\test\exam.txt in which write the four lines of the English poem as written.

    3

> *Fisherman in the cold sea*
>
> *would not harm whales*
>
> *and the man gathering salt*
> *would not look at his hurt hands*

In the same file write the code to display the number of vowels in this poem.

```php
<?php
$file = fopen("c:\xampp\htdocs\test\exam.txt" , "w");
$text = "Fisherman in the cold sea \n";
  fwrite($file, $text);
$text = "would not harm the whales \n";
fwrite ($file, $text);
$text = "and the man gathering salt \n";
fwrite ($file, $text);
$text = "would not look at his hurt hands\n";
fwrite ($file, $text);
fclose($file);
$file = fopen("c:\xampp\htdocs\test\exam.txt" , "r");
$count = 0;
while (! feof ($file);
{
$p = strtolower ($file); // strtoupper
if ( ($p = = "a") || ($p = = "e") || ($p = = "i")
|| ($p = = "o") || ($p = = "u"))
$count = $count + 1;
}
echo (" Number of vowels is : " . $count);
```

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

```
(i)   echo strlen("Hello world!");
(ii)  echo substr("Hello world!",6);
(iii) echo strcasecmp("Hello", "Hello");
```

(i) 12
(ii) World!
(iii) 0

5. (a) Answer the following questions based on PHP :
What will be the values of the variables x and y after executing the following code ?

2

```
$x=0; $y=0;

for($x=1;$x<=5; ++$x)

{

$y = $x++;

— — $y;

}
```

$x = 7
$y= 4

(1/2 mark for each correct answer)

(b) What is meant by superglobals in PHP ? Give the names of any two**superglobals**.   2
Predefined variables in php are called "superglobals". They are always accessible
regardless of their scope. we can access them from any function, class or file.
The PHP superglobals variables are:
$GLOBALS
$_SERVER
$_REQUEST
$_POST
$_GET
$_FILES

(c) Write the PHP code to set a cookie named "user" and value "exam". The
cookie should expire after a week. Also display the values stored   4
in S_COOKIE

Defining cookie and setting the time 2+2 = 4 marks

(d) The following code has error(s). Rewrite the correct code underlining all the corrections
made:
```
var j;
var i =15;
var flag = 1;
while (j = 2 j <i; j++)
{
if (i % j = 0)
{
flag==0;
break;
}
}
```
2

}following proper syntax and correcting the error 2 marks

6. (a) Answer the following questions based on JavaScript :
With the help of suitable example, explain two points of difference between   2
global and local variables.
Variables **declared inside any function/method** are called local variables.Their**scope is
limited** within the function, they are declared. They expire as soon as the function ends.
Variables **declared outside any function/method** are called global variables.They can be
accessible by any function and any script in the web page . They **live as long as
application or web page lives** .
Variables created **without the keyword var, are always global** , even if they are created

inside a function.

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

```
<SCRIPT LANGUAGE="JavaScript">
var num = [4];
var con = 0;
for( i = 3; i>=0; i-- )
f
        num[i] = i * con;
        document.write( num[i] + "<br>");
        con = con + 1;
}
</script>
```

0
2
2
        0

2

(ii) Rewrite the above code using while loop without affecting the output.   Correct syntax of while loop

(c)

```
<script language = "JavaScript">
function calc()
{
var a ;
a = parseFloat(document.f1.t1.value) ;
if(a >= 200000)
document.f1.t2.value = 0.1 * a ;
else if (a >= 100000)
document.f1.t2.value = 0.05 * a ;
else
document.f1.t2.value = "No tax" ;
}
</script>
</head>
<body>
<form name = "f1">
<h1> Tax Calculator</h1>
Enter your salary <input type = "text" name = "t1"><br>
Your tax is <input type ="text" name = "t2"><br>
<input type = "button" name = "b1" value = "Calculate" onclick =
"calc()">
</form>
```

4

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

(a)   . BOSS (Bharat Operating System Solutions)
(1 mark for correct answer)   1

   Note: Full marks on naming any Open source Operating System   2

   (b) Write any two points of difference between logical address and physical address of a computer connected over LAN. **Physical address :**
●A Physical address is a 48-bit flat address.   2
●This works in Layer-1 of OSI Model.
●This is unique for each system and cannot be changed.
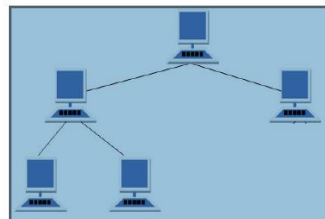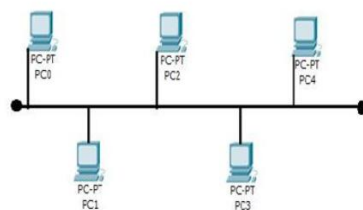**Logical address :**   1
●A Logical address is a 32- bit address assigned to each system in a network.
●This works in Layer-3 of OSI Model.
●This would be generally the IP address.
(1 Mark for writing about Physical Address)
(1 Mark for writing about Logical Address)

   Note: Full **2 Marks** to be awarded if IP address or example of IP address is given.

   (c)   Illustrate the layout for connecting 5 computers in a Bus and a Tree topology of networks.
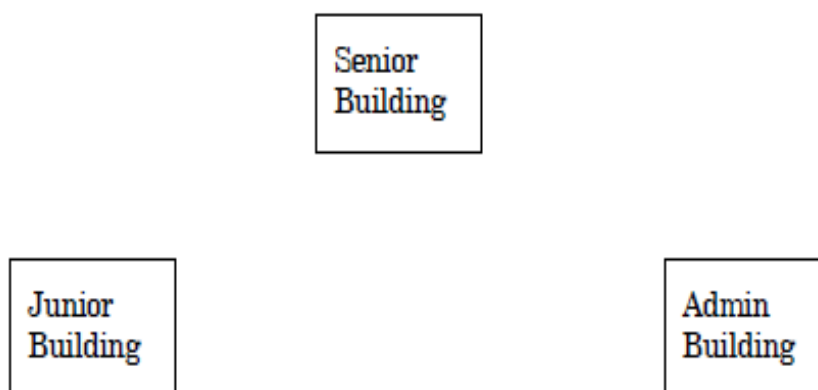

   (d) What do the following top level domains signify ?

       (i)   .com   commercial

       (ii)   .orgorganizatiobn

   (e)   Sarvodyay school is setting up their new campus in Mumbai. You, as a network expert, have to study the data given below and answer the following questions :

Physical locations of the buildings of the school :

Building-to-Building distances are as follows :

Admin to Senior	60 m
Admin to Junior	120 m
Junior to Senior	70 m

Each of the above buildings has the following number of computers :

Junior	60
Senior	50
Admin	120

(i)   ProperBuilding with the justification to connect all the buildings.   1

(ii) Suggest the most appropriate building to house the server with proper justification.Server - Admin building   1

(iii) What type of network, out of the following, is formed by connecting the computers of these buildings :   1

- LAN

(iv)   1

- Optical fiber