

Class XII – Multimedia and Web Technology

Sample Paper

Max. Marks: 70

Duration: 3 Hrs

Instructions:

1. Please check that this question paper contains 6 printed pages.
2. Please check question paper contains 7 questions.
3. The marks for each questions are displayed individually.
4. Please write down the serial number of the question before attempting it.

1. a) Define foreign key. 1
 a) What do you understand by term "Record"? 1
 b) Study the following data and answer the questions given below: 2

Table: Students

ROLL NO	NAME	CLASS	ADDRESS
101	Abhisek Kaushik	XII-A	F-25/28, Sec-7, Rohini
102	Arun Goel	XII-C	WZ-234, Palam Colony
103	Chinmay Rana	XII-C	PKT-6/23, Saket, Delhi
104	Karan Kumar	XII-C	12 th Cross, Gulf Link

- i. Name the field, which can act as the primary key
- ii. Suggest the datatype that should be used for each field of the **Students** table.

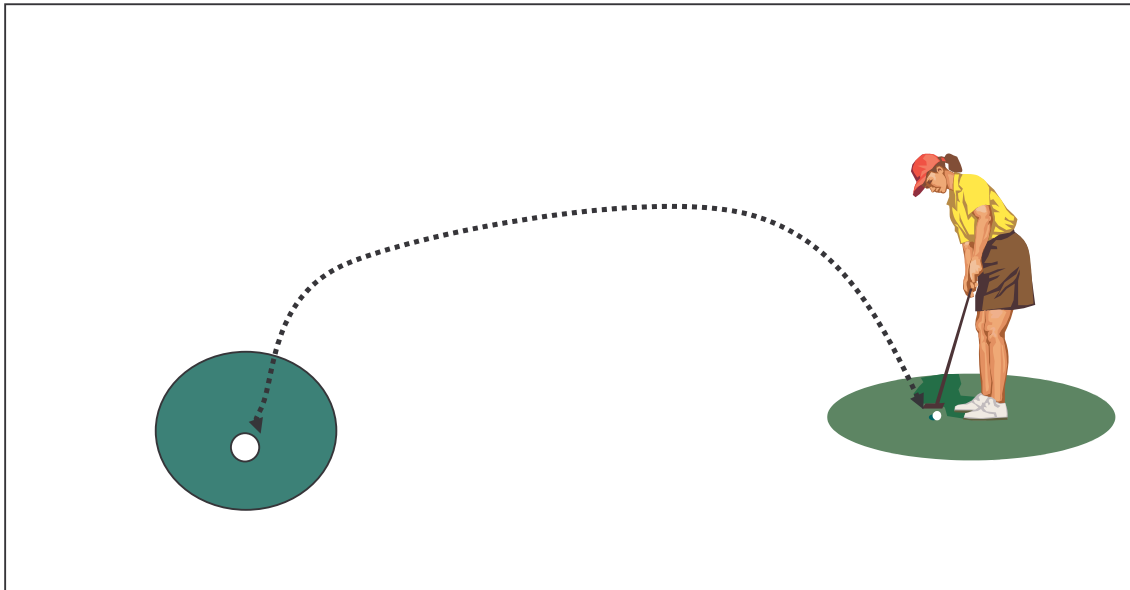
- c) Define information kiosks. 2
- d) Write one use of multimedia in business. 1
- e) Write full form of the following formats: 2
 - i. JPEG
 - ii. PNG

2. Answer the following questions based on Macromedia Flash:

- a) Define the term framerate. 1
- b) Differentiate between a Guide layer and a Mask layer. 2
- c) Define the term Symbol. 1
- d) What do you understand by the term "Publishing a Flash Movie"? Name any two formats (other than swf) in which a flash movie can be published. 2

e) Observe the figure given below and do as directed:

4



- i. The image on the right hand side shows the position and size of the ball for frame 1.
 - ii. The image on the left hand side shows that position and size of the ball for frame 40.
 - iii. The dotted line shows the path of motion of the ball.
- Write the procedure and property settings for animating the above scenario.

3. **Answer the following questions based on HTML:**

- a) Define the following elements: 1
 - i. Strike
 - ii. Big
- b) Explain the difference between <frameset> and <frame> tags. 1
- c) Write the HTML code to generate a web page in the format given below:

Consider the following while writing the HTML code: 8

- i. Background colour of the page should be "yellow" and visited link colour should be "Green".
- ii. Default font for the entire page should be Verdana and text colour should be red.
- iii. In the drop down list of "Select your Favorite Sports", option Cricket must be selected when page get loaded.
- iv. The (****) characters must appear in the password field.
- v. When a user click on **Send** button the form must get posted to the email address manmohanc@scindia.edu

- vi. The size of text "Find more on www.hairstyle.com....." should be 2 and when user click on it must be redirected to the website.

Employee Details Form

Employee Name :

Employee Address :

Mobile No :

Designation:

Select your Favorite Sports : Cricket Tennis Hockey Swimming

Select your Height : 5ft 1 inch 5ft 3 inch 5ft 5 inch 5ft 8 inch

Username :

Password :

Your Comments :

Find more on www.hairstyle.com.....!!

4. Answer the following questions based on ASP:

- a) Differentiate between Get and Post method. 1
- b) What are the two main objects required to connect to a database using ASP? 2
- c) Give the usage and syntax of the following inbuilt functions: 2
- i. CBool()
 - ii. LCase()
- d) Differentiate between Sub procedure and Function procedure. 2
- e) Give output of the following statements: 3
- i. Response.write(ucase(mid("WEB TECHNOLOGY",2,abs(13 mod 7^1^3-2))))
 - ii. Response.write(right("Class XII", hour(#4:30:10 AM#)))
 - iii. Response.write(instr("mistrust or DISTRUST" , "st"))

5. Answer the following questions based on ASP:

- a) Define the following objects: 2
- i. Application Object
 - ii. Session Object
- b) How server side scripting is more secure than client side scripting? 1

- c) Underline the errors in the following code and write the corrected script. 2

```
<%  
    Sometext= "Bye!"  
    Max= Length (sometext)  
    For I = 0 to Max  
    Newtext = Left (Sometext, I)  
    Response.write(strReverse(newtext))  
    document.write( <BR>)  
    Loop  
%>
```

- d) Give the output of the following code segments: 2

```
<%  
    Arr = Array (25,14,20,45,25,1,1,31)  
    Max = Ubound (Arr)  
    For I = Max to 1 Step -2  
    Arr(I) = 10 * Arr(I)  
    Response.write(Arr(I) & "<BR>")  
    Next  
%>
```

- e) Write an ASP program to read a text file named "**mytext.txt**" and display the content of the file on the screen after converting all alphabets to upper case letters and replacing all spaces with "#". 3

For example if the file contains the text:

Work is Worship.

The program should display:

WORK#IS#WORSHIP.

6. Answer the following questions based on VBScript:

- a) Differentiate between a sub-routine and a function with the help of an example. 2
- b) Change the following script using FOR loop without effecting the output: 2

```
<SCRIPT LANGUAGE="VBScript">  
    DIM count,ans  
    ans=1  
    count=2  
    DO  
        ans=ans*count  
        count=count+2  
    LOOP WHILE count<=10  
    document.write(ans)  
</SCRIPT>
```

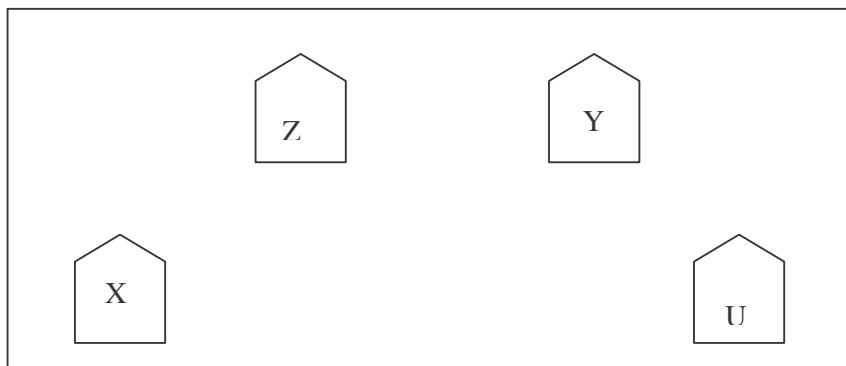
c) Give the output of the following code segment: 2

```
<script language=vbs>
  Ans = 0
  a = 1
  Do while a <=3
  Ans = Ans + analysis(a)
  a = a + 1
  document.write Ans
  loop
  function analysis(b)
  analysis = b * b * b
  end function
</script>
```

d) Write an HTML code for creating a form, which accepts the birth date from the user in a textbox and displays the day of the week in a message box on the click of a button. 4

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

- a) Name any two units to measure data transfer rate. 1
- b) Write one difference between a Hub and a Gateway. 2
- c) Explain the following terms: 3
 - i. Telnet
 - ii. CDMA
 - iii. Hackers
- d) The Cyber Mind Organisation has set up its new Branch at Mizoram for its office and web based activities. It has 4 Wings of buildings as shown in the diagram: 4



Center to center distance between various blocks

Wing X to Wing Z	40m
Wing Z to Wing Y	60m
Wing Y to Wing X	135m
Wing Y to Wing U	70m
Wing X to Wing U	165m
Wing Z to Wing U	130m

Number of computers

Wing X	50
Wing Z	130
Wing Y	40
Wing U	15

- i.** Suggest a most suitable cable layout of connections between the Wings and topology.
- ii.** Suggest the most suitable place (i.e, Wing) to house the server of this organization with a suitable reason with justification.
- iii.** Suggest the placement of the following devices with justification:
 1. Repeater
 2. Hub/Switch
- iv.** The organization is planning to link its head office situated in Delhi with offices at Mizoram. Suggest an economic way to connect it; company is ready to compromise on the speed of connectivity. Justify your answer.

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