

Series : SKS/1

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 **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 minutes 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

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

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

1. (a) Observe the two tables - ITEMS and SALES of a Database named Products given below and answer the questions that follow :

3

| ITEMS     |           |       |
|-----------|-----------|-------|
| ITEM_CODE | ITEM_NAME | PRICE |
| 1002      | Keyboard  | 1090  |
| 1003      | Mouse     | 546   |
| *         |           |       |

| SALES   |            |          |           |
|---------|------------|----------|-----------|
| BILL_NO | SALE_DATE  | QUANTITY | ITEM_CODE |
| 1432    | 17-12-2012 | 5        | 1002      |
| 1454    | 28-12-2012 | 3        | 1003      |
| *       |            |          |           |

(ii) Identify a tuple from the table SALES.

(iii) Identify any one data item from the table ITEMS.

(iv) Name the foreign key for the table SALES.

(v) Mention the cardinality of the table ITEMS.

(vi) What type of relationship will exist between these two tables ?

- (b) The relation EVENTS is used to maintain data related to various events organized by an Event Management Company. Study the table and answer the following questions :

| Event_ID | Event_name              | Event_Date | Event_Status |
|----------|-------------------------|------------|--------------|
| A112     | Gala Evening with Stars | 04-04-2013 | Preparing    |
| E115     | Deja-Vu                 | 02-03-2013 | Completed    |

(i) Name the field that can act as a primary key in the table EVENTS.

1

(ii) Suggest the data types that should be used for each of the fields in the table EVENTS.

2

- (c) Shirija wants to add links to his favourite songs on his personal website. He wishes to listen to all songs before giving a link to them. Which of the following hardware is essentially required by him in his computer system ?

1

(a) Graphics Card

(b) MIDI Interface Card

(c) Sound Card

(d) Network Interface Card

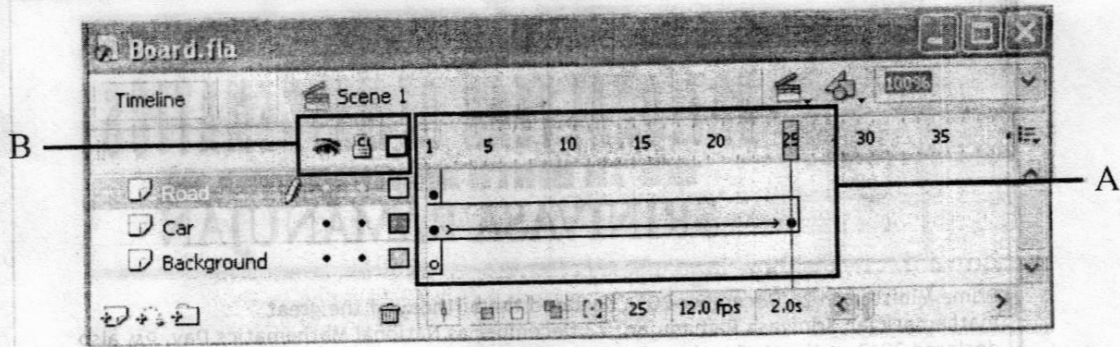
- (d) Name any two popular sound formats that are most popularly used while designing web pages.

1

- (e) Enumerate any two uses of Multimedia in education.

2

(a) Study the figure given below and answer the questions that follow :



- (i) Identify the areas labelled as A and B in the above figure. 1
- (ii) Explain 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 increasing the frame rate of this movie from 12.0 fps to 15.0 fps ? 1
- (b) What is the use of onion skin feature ? 1
- (c) Differentiate between Graphic symbol and Movie clip symbol available in Flash. 2
- (d) Observe the image given below and do as directed : 4

## BOARD EXAM

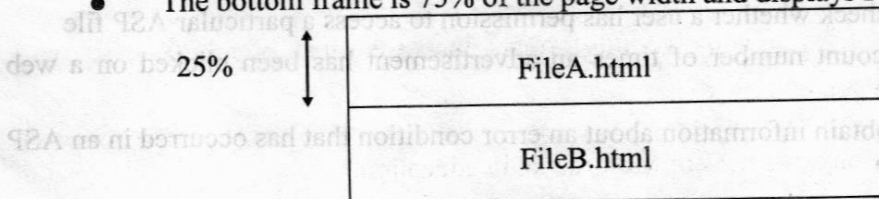
## BOARD EXAM

- The text on the left hand side shows the position and size for frame 1.
- The text on the right hand side shows the position and size for frame 30.
- The text on the left is blue in colour while the one on the right side is gray in colour. Write the procedure and property settings for animating the above scenario.


3. Answer the following questions based on HTML :

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

- The page is divided into two frames horizontally.
- The top frame is 25% of the page width and displays FileA.html
- The bottom frame is 75% of the page width and displays FileB.html







## NATIONAL YEAR OF MATHEMATICS

### 125 TH BIRTH ANNIVERSARY OF SRINIVASA RAMANUJAN

Prime Minister on 26 December 2011 declared the birthday of the great mathematician Srinivasa Ramanujan, 22 December as National Mathematics Day. PM also declared 2012 as the National Mathematical Year.

The Ramanujan Mathematical Society will hold a series of activities in 2012 to mark the 125th birth anniversary of the mathematician.

The activities involve different sections like:

- School goers
- College students
- Research Fellows

| Programme Details |  |
|-------------------|--|
| Event             | Details  |
| Opening Ceremony  | Prime Minister inaugurated the year- long celebrations at the Madras University Auditorium                         |
| Activities        | Talks and activities would focus on helping students get rid of their fear of the subject and improve their skills |
| Closing Ceremony  | International Conference of Mathematicians in New Delhi in December 2012   |

For enquiries mail us at [RMS@xyz.com](mailto:RMS@xyz.com)

Consider the following points while writing the HTML code :

- (1) The title of the web page is Mathematics Year.
- (2) Text style of the page is Trebuchet MS.
- (3) The image used is maths 1.jpg
- (4) The table has a red coloured border that is 5 pixels thick.
- (5) The space between cells is 5 pixels.
- (6) Use the concept of lists for creating the given list.
- (7) The link at the bottom is an e-mail link to the address [RMS@xyz.com](mailto:RMS@xyz.com)

4. Answer the following questions based on ASP :
- (a) Explain with examples two ways in which server side scripts can be added to an HTML document. 2
  - (b) Explain the usage of Clear and Redirect methods of the Response Object. 2
  - (c) Name the object or component used for the following :
    - (i) To check whether a user has permission to access a particular ASP file
    - (ii) To count number of times an advertisement has been clicked on a web page
    - (iii) To obtain information about an error condition that has occurred in an ASP page 3

- (i) Response.write( " " )
- (ii) Response.write(UCASE(LEFT("Partying",5)))
- (iii) Response.write("MONTH NO." + "3")

5. Answer the following questions based on ASP

- (a) Expand the term DSN. 1
- (b) What is the difference between the AtEndOfLine and AtEndOfStream methods ? 2
- (c) Study the codes given below and answer the questions that follow :

**Exam.txt**

This year I wish to buy the following items:

1. I-phone
2. Samsung Galaxy Tab
3. Sony Home Theater

Hope I can fulfill my wishes.

**Exam.asp**

```
<% Dim count,ch
count=0
Set fs=Server.CreateObject("Scripting.FileSystemOb
ject")
Set f=fs.OpenTextFile("Exam.txt")
Do While NOT f.AtEndOfStream
ch=UCASE (f.Read(1))
IF ch="I" THEN
count=count+1
ENDIF
Loop
Response.Write("Number of occurences=" & count)
f.close %>
```

- (i) What is the use of the Read method in the file Exam. asp ? 1
- (ii) Give the output of the Exam. asp file. 1
- (iii) How will the output change if the f.Read(1) is replaced by f.Read(5) ? 1
- (d) Study the code given below :

```
<%
Set cont=_____.CreateObject("_____
ContentRotator")
_____.Write (cont ._____ ("Content.txt"))
%>
```

- (i) Fill in the blanks to complete the above code fragment to create an ASP file used to display rotating content stored in the Content.txt file dynamically using the Content Rotator component. 2

- (b) A child needs to be nurtured like a flower whose weightage should be 7 and 3 respectively.

2

6. Answer the following questions based on VBSCRIPT :

- (a) What is event handling ? Which of the following two events will be required to write a code to enlarge an image when the mouse pointer is over the image and retains its original size when the mouse points anywhere else on the page :

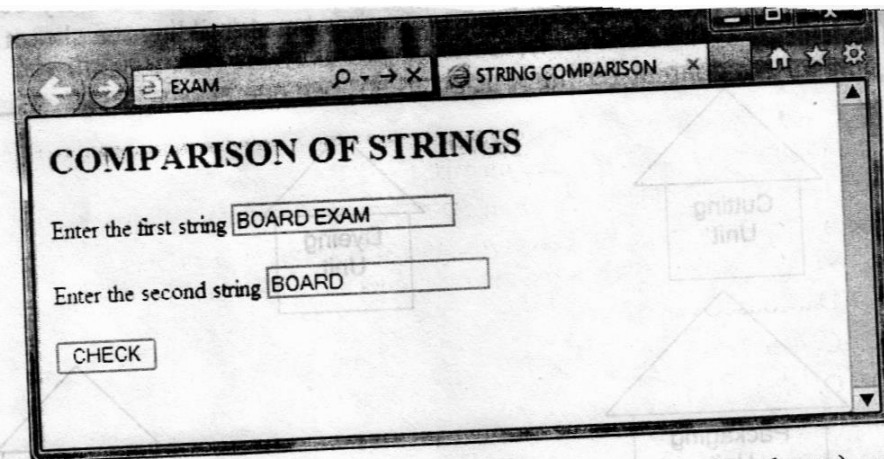
- (i) OnMouseOver
- (ii) OnMouseIn
- (iii) OnMouseOut
- (iv) OnMouseExit
- (v) OnClick
- (vi) OnMouseClick

- (b) Rewrite the following code using a FOR loop instead of DO UNTIL loop without affecting the output

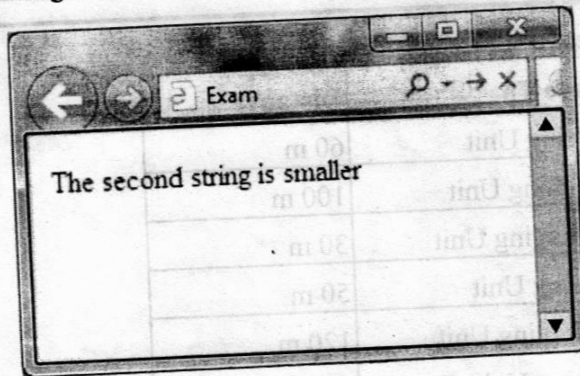
```
<SCRIPT LANGUAGE="VBScript">
DIM prod, counter
prod =1
counter=1
DO UNTIL counter > 7
    prod=prod*counter
    counter=counter + 2
LOOP
</SCRIPT>
```

- (c) Predict the output of the following code:

```
<SCRIPT LANGUAGE="VBSCRIPT">
SUB CHANGE (a,b)
    a=a+a
    b=b*b
    DOCUMENT. WRITE (a & b & "<BR>")
END SUB
c=3
d=10
e=5
f=20
CALL CHANGE (c,d)
CALL CHANGE (e,f)
</SCRIPT>
```



Write the VBscript code to display appropriate message (as shown) as to which string is smaller on the click of the CHECK button.

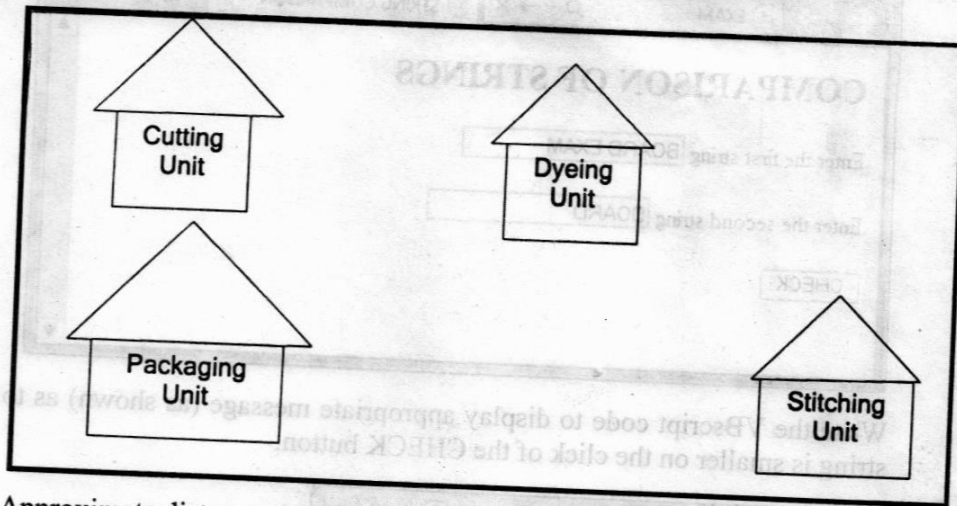


7. (a) Name any two open source RDBMS. 1
- (b) Sumana is giving a remote demonstration of a School Management Software to one of her clients. She needs to login to the client's computer and operate it using her own PC. Which protocol is she likely to use to perform the above task? 1
- (i) FTP
- (ii) PPP
- (iii) Telnet
- (c) Expand the following : 2
- (i) FSF
- (ii) GPL
- (d) Differentiate between Microwaves and Radiowaves as a transmission media. 2

[P.T.O.]



located at Pune in India. The factory premises has 4 buildings as shown in the diagram below :



Approximate distances between these offices are as follows :

| Place From     | Place To       | Distance |
|----------------|----------------|----------|
| Cutting Unit   | Dyeing Unit    | 60 m     |
| Cutting Unit   | Stitching Unit | 100 m    |
| Cutting Unit   | Packaging Unit | 30 m     |
| Stitching Unit | Dyeing Unit    | 50 m     |
| Stitching Unit | Packaging Unit | 120 m    |
| Packaging Unit | Dyeing Unit    | 80 m     |

The company plans to install the following number of computers in each of the offices :

| Building       | No. of Computers |
|----------------|------------------|
| Cutting Unit   | 40               |
| Dyeing Unit    | 40               |
| Stitching Unit | 30               |
| Packaging Unit | 60               |

- (i) Suggest a cable layout of connections between buildings and name the topology used. 2
- (ii) Where should repeaters be placed and why ? 1
- (iii) The head office is situated in Malaysia. Suggest the method of linking the head office and this factory that can provide fast and reliable communication provided cost is not a consideration. 1