Model Questions

System Engineering and Web Design

(Note:

- These questions are given only to indicate the nature of questions for the Final Examination.
- The Final examination questions will not be confined to the ones in this question bank.
- The ATCs may prepare the Question Paper for the Model examination and conduct the Model examination during 27/01/2009 to 31/01/09)

Part-I Choose the correct answer

1. Which of the foll	owing is an	invalid	variable	name?
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- a) \$my_Var b) \$myVar
- c) \$my-Var
- d)None of these

- 3. Which among the following is not a case sensitive language? a)JavaScript b)HTML c)C++ d)None of these
- 4. Which among the following is an attribute? a) b)<COLOR> c)<HR> d)None
- 5. Which among the following element has a closing tag? a)
 b)<HR> c)<HI> d)None
- 6. PHP statements are terminated by
 - a) . b) </php> c);
- e); d)None of these
- 7. What is the correct syntax to create a *pop up* "Hello World" in JavaScript?
 - a) response. write("Hello World");
 - b) document. write("Hello World");
 - c) alert("Hello World");
 - d) None of these
- 8. How can you make an e-mail link?
 - a)
 - b) <a href =<"mailto:xxx@yyy">
 - c) <mail>xxx@yyy</mail>
 - d)All of these
- 9. Which among the following JavaScript code will give an output 10?

Document. Write(X);

Document. Write(X);

c) X=5+5;

```
Document. Write(X);
    d) All of these.
10. With CSS where do you add the following:
     link rel="stylesheet" type="text/css" href="style.css" >
 a) Head
            b) body
                        c) both head and body
                                                        d)None of these
11. What is the correct HTML for inserting an image?
    a) <img>image.gif</img>
    b) <img src ="image.gif">
    c) <img href ="image.gif">
    d)None of these
 12. What will be the output of the PHP code given below?
    <?php
    x = \text{"test"};
    echo '$x';
    ?>
                   b)'$x'
                                 c)$x d)none of these
    a)test
 13. What does PHP stand for?
    a)Personal Home Page
    b) PHP is Hypertext Preprocessor
    c)Personal Hypertext Processor
    d)None of these
 14. Which is the correct place to insert a JavaScript?
    a) Both the <head> section and the <body>
    b) The <body> section
    c) The <head> section
    d) None of these
 15. With CSS where do you add the following: <style type="text/css">?
    a)<head> section
    b)<br/>section
    c)Text document
 16. What is the correct JavaScript syntax to write "Hello World"?
    a)response.write("Hello World")
    b)document.write("Hello World")
    c)"Hello World"
    d)None of these
17. What is the correct way to connect to a MySQL database?
    a)mysql_connect("localhost");
```

```
b) mysql connect ("localhost");
     c)mysql_opendb("localhost");
     d)None of these
18. Which one of these variables name is invalid?
     a)$my_Var
     b)$myVar
     c)$my-Var
     d)None of these
19. How can you open a link in a new browser window?
     a)<a href="url" target="_blank">
     b)<a href="url" target="new">
     c)<a href="url" new>
     d)All of these
20. Which of the following HTML tag is used to create unordered list?
        a.  b) 
                                 c) <unordered> d)None of these
21. What will be the output of the code given below?
       echo strpos("Hello world!", "world");
       ?>
    a)5 b)6 c)7 d)0
22. Which of the following is not a web browser?
        a) Internet Explorer b) Windows Explorer c) Opera d)Chrome
 23. What will be the output of code given below?
            <?php
            $num=6;
            echo "The circle is the ${num}th shape";
        a) The circle is the {6}th shape
        b) The circle is the shape
        c) The circle is the 6<sup>th</sup> shape
        d) None of these
 24. <script type="text/javascript">
        var x=5;
        x="1"+x;
        document. write(x);
       </script>. What will be the value of x?
                            c)5 d)1x
        a) 6 b) 15
 25. Which among the following is/are not a PHP file extension?
                                                       d).pht
     a) .php
                          b) .php3
                                         c) .phtml
```

26. Which of the following is not used to transmit data from an HTML form to a server? a) get b) post c) send 27 .Which of the following testing certifies that the system is free of errors and is ready to be placed into operation? a) Alpha testing b)Audit testing c) Stress testing d)None of these 28. The process of translating a source document into a machine readable format a)Data input b) Data entry c) Batch input d)None of these 29. Cost that are known to exist but whose financial value cannot be measured accurately are called a) Intangible cost b) Tangible cost c) Cost of operation. d)) None of these 30. Which among the following is an example of open system? a)Regulator of a fan b)Personal Computer c)Missile guidance system 31. Which among the following is a system in which the occurrence of events cannot be perfectly predicted? a)Open System b)Deterministic System c)Probabilistic System 32. is the actual entry of data in a machine readable format into the computer. a) Data Entry b)Data input c)Batch input d)Online input is the smallest unit of data stored in the memory a)Field b)Record c)file d)None 34. Which among the following is the test performed on individual modules? a) Stress Testing b) Unit Testing c) Stub Testing d) Series Testing Part-II Give the output of the codes given below 1. <?php for (\$i = 1; \$i < 2; \$i++)echo \$i; echo \$i; ?> 2. <?php x = 4; \$rt = "Debug"; \$rt_4 = "Test"; \$rt \$x="Blue"; echo \${rt_.\$x};?> 3. <?php

\$txt1="Hello World";

\$txt2="1234";

```
echo $txt1 . " " . $txt2;
   ?>
4. <?php
   x = x'';
   y = x';
   $$x = "y";
   echo "$x $y";?>
5. <?php
   $a=array("PHP","Java","C++");
   array_push($a,"VB","C#");
   echo $a[3];
   ?>
6. <?php
   $a=10;
   $b='10';
   if(a = = = b)
   echo "Equal";
   }
   else
   echo "Not Equal";
   }
   ?>
7. <?php
     a=10;
     $b='10';
     if(a = b)
     {
          echo "Equal";
      }
     else
      {
          echo "Not Equal";
      }
           ?>
8. <?php
   $colorArray=array("Red","Blue","Green");
   array_shift($colorArray,"Yellow");
   echo $colorArray[0];
   ?>
9. <?php
      $j=10;
```

```
for($i=0;$i<5;$i++)
{
    $j +=1;
}
    echo $j;
?>

10. <?php
    $x = "y";
    $y = "x";
    $z = "a";
    $$x = "z";
    $$x = "b";
    echo "$x $y $z";
    ?>
```

Part-III Fill in the blanks

11 tag is used for inserting images in HTML.
12. The function used to display year in JavaScript is
13. The tag creates a new row of a table.
14. In PHP function used to check whether a variable is set or not is
15. An external style sheet can be added to a document usingtag.
16 attribute is used to set a border around the image
17. JavaScript is a language.
18. CSS stands for
19. In JavaScript function used to print current webpage is
20. The HTML tag that provides paragraph break is
21. In HTML tag used to divide the single browser window into two window
panes is
22. TIFF is
23. The HTML tag that provides line break is
24. All PHP variable names must be prefixed with a
25. In PHP the function used to convert the first letter of every word to uppercase is
26is a chance to improve the organization even in the absence of specific problems.
27 relationship represents data elements that are repeated one or more times in a data structure.
28. PIECES is a framework for classifying problems, and directives
29. '[]' notation represents relationship in data dictionary.
30. '+' notation represents relationship in data dictionary
31 relationship represents data elements that are repeated one or more
times in a datastructure

- 32. _____ is used to refer to a point where the cost of candidate system and that of the existing system are equal.
- 33. ______ is used to refer to a point where the cost of candidate system and that of the existing system are equal.

Part-IV State whether True or False

- 1. A PHP scripting block always starts with <?php and ends with ?>.
- 2. The setcookie function must appear before the <HTML> tag.
- 3. <BASE> can be used to record document's location in the form of an URL.
- 4. The basic building block of conditional coding is the if statement.
- 5. In PHP, a variable must be declared before being set.
- 6. <Break> tag is used to break a line.
- 7. PHP is only executed in WINDOWS.
- 8. HTML is a case sensitive language.
- 9. Keystroke is a JavaScript event.
- 10. A CSS comment begins with "/*" and ends with "*/".
- 11. JavaScript variables are prefixed with '\$' sign.
- 12. The purpose of JavaScript prompt is to gather information from the user.
- 13. H4 is the smallest HTML heading tag.
- 14. The purpose of Java script prompt is to gather information from the user.
- 15. An external JavaScript must contain the <script> tag.
- 16. Logical operators are also known as Boolean operators
- 17. In PHP '.' Operator is used to string concatenation.
- 18. JavaScript is a server side scripting language.
- The two sub elements HEAD and BODY are required to form any HTML document.
- 20. The default color of VLINK is purple.
- 21. Web developers cannot set the link colors for their documents.
- 22. A background image must be either in the form of .gif or .jpg file.
- 23. A is an invisible character that takes up one space.
- 24. In JavaScript semicolon is optional.
- 25. The horizontal bar chart is sometimes called a Gantt chart.
- 26. The development phase activity includes writing and testing the computer programs.
- 27. System Analysis deals with logical and system design with physical aspects of a system.
- 28. A missile guidance system is a deterministic system
- 29. The development phase activity includes writing and testing the computer programs.
- 30. In Water fall model the phases are organized in non linear model.

- 1. Write the syntax of switch statement in PHP.
- 2. Write a JavaScript code to generate a pop up "I am learning Java".
- 3. What is the difference between PHP Session and Cookie?
- 4. How to set the background color in web document?
- 5. Write a PHP program to find the current working directory.
- 6. How do you sort an array using JavaScript? Explain with a program.
- 7. Write the HTML code to insert an image 'nehru.jpg', 160pixels wide and 190 pixels high.
- 8. What is the difference between GET method and POST method?
- 9. What do you mean by PHP session variables?
- 10. What do you mean by static and dynamic webpage?
- 11. What will be the result of the body element shown below?

```
<BODY BGCOLOR ="WHITE" TEXT="RED" LINK="BLUE"
VLINK="MAGENTA" ALINK="YELLOW">
```

- 12. The
 element does not have a closing tag. Give Reason
- 13. Write an HTML code to demonstrate nesting list.
- 14. What is Cell Spacing and Cell Padding?
- 15. Write a program to demonstrate *If else* statement in java script.
- 16. Mention some benefits of Javascript.
- 17. Write a java script code to find out the position of S in the string JAVASCRIPT.
- 18. Give an example to demonstrate how you will set the layout of a table using CSS.
- 19. Write an SQL query to select the details of the employees whose name starts with A.(Table Name: employeeDetails)
- 20. What do you mean by tangible cost and tangible cost? Give example.
- 21. Explain about the two types of decision table.
- 22. What is a data structure?
- 23. What do you mean by decision tree in structured analysis?
- 24. What do you mean by Scheduling?
- 25. Define the terms
 - a)Linear Media b)Hyper Media
- 26. What is meant by System Engineering?
- 27. What is a form? What do you mean by Boxed Style Form?
- 28. Define
 - a. Closed System b. Open System
- 29. Name three ways of Changeover in System Engineering.
- 30. Define Critical Path and Float
- 31. What are the different ways in which a file is referenced and updated?
- 32. How we can assess technical feasibility?
- 33. What is a decision table? What are the four basic parts of decision table?

Part-VI Answer any six questions

(5 Marks Each)

1. Write a PHP program to display data stored in a table sorted by "age" column.

Table Name: employeeDetails

Column	Type
name	Varchar(20)
age	int(5)
salary	int(10)
DOJ	Date

2. Write the HTML code for the table shown below and also set a background image for the table.

First Name	RUTRONIX	
Telephone	6456089	
	3058875	
Place	Sasthamangalam	

- 3. Explain any five character formatting elements in HTML
- 4. Explain
 - a)Document-Relative Links
 - b)Site-Root-Relative Links
- 5. Differentiate between Ordered list and Unordered list.
- 6. Explain about Special formatting elements in HTML.
- 7. Write a program to calculate total fees of the students who are applying for an examination in which there are three theory subjects and one practical in total. The students may register for subjects of their choice. (Fees: 75 Rs. For one theory and 100 Rs for one practical)
- 8. Write the HTML code to create an Events Calendar as shown below.

Coming Events

Click any of the days highlighted in the calendar to read about the event scheduled for that day.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	<u>11</u>	12	13	<u>14</u>	15	16
<u>17</u>	18	19	20	21	22	23
24	25	26	<u>27</u>	28	29	30
31						

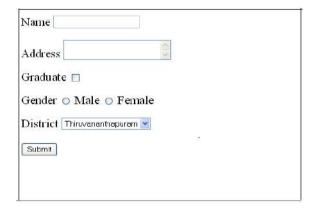
- 9. Explain about five JavaScript loop statements
- 10. Give an example to demonstrate for loop in PHP. Briefly explain the code
- 11. Write the HTML code to create the frames given below

- 12. Write a JavaScript code to split the string 'I am learning Java Script' into words.
- 13. Explain about some of the table data and table header attributes.
- 14. Write a PHP program to print the number of fields in a data table. (Assume that name of the table is Studdetails and database is Student).
- 15. What is MIS? How does it differ from Regular Information System?
- 16. Differentiate between structured and unstructured interview.
- 17. What is a Web Browser? Give two examples.
- 18. Briefly explain the Cost-Benefit evaluation methods.
- 19. What is meant by a System in System engineering? What are the different types of Systems?
- 20. What are the basic characteristics of a System?
- 21. Explain about the benefits of MIS.
- 22. What are the different phases in SDLC?
- 23. Why do we use system flow chart? What are the different types of symbols representing system flow chart?
- 24. Explain Data coding.
- 25. Explain about the design objectives in system design.
- 26. Explain about the basic parts of a Form.
- 27. What are the different types of decisions taken in a business system?
- 28. Explain about the design objectives in system design.

Part-VII Answer any two questions

(10 Marks each)

- 1. What are the three parts of CSS syntax .What is the difference between external style sheet and internal style sheet? Create a web page to demonstrate CSS; the web page should have its heading in blue color and the font should be of size 3 and italics and it should have a background image which should repeat in the vertical direction only.
- 2. Briefly explain about conditional statements and looping statements in PHP with suitable examples.
- 3. Write a PHP program to read and insert the details from a webpage as shown below in a database.



4. What is System Testing? What are the different strategies for system testing?

- 5. Explain the various methods of Data collection.
- 6. Explain about the data documentation tools used by the system analyst.
- 7. Explain the system development lifecycle.
- 8. Explain about data collection/Fact finding techniques in system requirement specification.