

FIRST REVISION EXAMINATION-JANUARY-2024
COMPUTER APPLICATION
CLASS: XI MEDIUM: ENGLISH
CHENNAI DISTRICT

Class : 11

Register
Number

FIRST REVISION EXAMINATION - JANUARY - 2024
COMPUTER APPLICATION

Time Allowed : 3.00 Hours]

[Max. Marks : 70

Instructions : (1) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.

(2) Use Blue or Black ink to write and underline and pencil to draw diagrams.

PART - I

Note : (i) Answer All the questions.

15x1=15

(ii) Choose the correct answer and write the option code & the corresponding answer.

1. Which one of the following is the main memory?
 (a) ROM (b) RAM (c) Flash drive (d) Hard disk
2. For 1101_2 the equivalent Hexadecimal equivalent is?
 (a) F (b) E (c) D (d) B
3. Display devices are connected to the computer through.
 (a) USB port (b) PS/2 port (c) SCSI port (d) VGA connector
4. Operating system is a
 (a) Application Software (b) Hardware
 (c) System Software (d) Component
5. Under which of the following OS, the option Shift + Delete – permanently deletes a file or folder?
 (a) Windows 7 (b) MS-DOS (c) Linux (d) Android OS
6. Which is the opening screen of OpenOffice?
 (a) Star Desktop (b) Star Center (c) Star Screen (d) Star Window
7. What will be the result from the following formula (Assume $A1=5$, $B2=2$)? $+ A1^*B2$
 (a) 7 (b) 25 (c) 10 (d) 52
8. What is the expansion of WLAN?
 (a) Wireless Local Area Network (b) Wired local Area Network
 (c) Wireless Local Area Netware (d) Wireless Area Netbande
9. Which of the following attribute is used to change text colour within body tag?
 (a) bgcolor (b) background (c) text (d) color
10. Read the following statement and choose the correct statement(s):
 (I) Link in HTML is used to create hyperlinks to web content.
 (II) HREF is abbreviated as Hypertext Markup File
 (a) I is correct (b) II is correct (c) I and II is correct (d) Both are wrong
11. The important attributes used with the <form> tag are
 (a) method and action (b) name and size
 (c) post and get (d) type and name
12. CSS is also called as:
 (a) Sitewide Style Sheets (b) Internal Style Sheets
 (c) Inline Style Sheets (d) Internal Inline Sheets
13. Expand DHTML
 (a) Distance Hyper Text Markup language
 (b) Dynamic Hyper Text Markup language
 (c) Distance High Text Markup language
 (d) Dynamic High Text Markup language
14. What will be the output of the given script?

```
<script language="javascript">
var x = 6 + "3";
document.write(x)
</script>
```

 (a) 6 (b) 9 (c) 63 (d) Error
15. The process of converting cipher text to plain text is called
 (a) Encryption (b) Decryption (c) key (d) proxy server

PART - II

Note: Answer any six questions. Question No. 24 is compulsory.

6x2=12

16. Distinguish between data and information.
17. How will you Rename a File?
18. What are the keyboard shortcuts to cut, copy and paste?
19. What is a network?
20. How do you define comments in HTML?
21. How will you define numbered list?

CH/11/C.A/1

22. What are the major attributes available in <textarea> tag?
 23. What is the use of prompt dialog box in JavaScript?
 24. What will be the output of the following JavaScript?

```
<script language="javascript">
  for(var n=1; n <=5; n++)
  {
    document.write(n + "<br>");
  }
</script>
```

Note: Answer any six questions:
 Question No. 33 is compulsory.

PART - III

6x3=18

25. Add: a) $-22_{10} + 15_{10}$ b) $20_{10} + 25_{10}$
 26. What are the advantages and disadvantages of Time-sharing features?
 27. What are the different ways to save a document?
 28. What are the attributes available in <html> tags?
 29. Explain the values of <input> tag's type attribute.
 30. Difference between the increment and Decrement operator.
 31. Write a short note on: (a) toUpperCase() (b) toLowerCase() (c) length()
 32. What are the guidelines to be followed by any computer user?
 33. Write an HTML code to get the following output.
 1. Districts of Tamilnadu
 A. Chennai
 B. Madurai
 C. Coimbatore

Note: Answer all the questions.

PART - IV

5x5=25

34. (a) (i) Write the procedure to convert fractional Decimal to Binary
 (ii) Convert $(98.46)_{10}$ to Binary

(OR)

- (b) Explain JavaScript's for loop with example.
 35. (a) Read the following table

	A	B	C	D	E
1	Year	Chennai	Madurai	Tiruchi	Coimbatore
2	2012	1500	1250	1000	500
3	2013	1600	1000	950	350
4	2014	1900	1320	750	300
5	2015	1850	1415	820	200
6	2016	1950	1240	920	250

Above table shows the sales figures for "Air Cooler" sold in four major cities of Tamilnadu from the year 2012 to 2016. Based on this data, write the formula to calculate the following.

- Total sales in the year 2015.
 - Total sales in Coimbatore from 2012 to 2016.
 - Total sales in Madurai and Tiruchi during 2015 and 2016.
 - Average sales in Chennai from 2012 to 2016
 - In 2016, how many "Air Coolers" are sold in Chennai compared to Coimbatore?
- (OR)
- (b) Explain any five internet applications with suitable examples.
36. (a) Write a HTML program to display your school name and address using various heading level tags.
- (OR)
- (b) Explain about the JavaScript's Arithmetic operator with suitable example.
37. (a) What is Link and explain the types of links.
- (OR)
- (b) What is piracy? Mention the types of piracy? How can it be prevented?
38. (a) Write an HTML code to get the following form.

Forms and Controls

Student Name :

Gender : Boy Girl

Subjects : Tamil Telegu English Physics Economics

(OR)

- (b) Explain the characteristics of a microprocessor.

CH/11/C.A/2

PART-I (1MARKS)

- 1.b) RAM
- 2.c) D
- 3.d) VGA Connector
- 4.(c) System Software
- 5.(a) Windows 7
- 6.b) Star Center
- 7.(b) 25
- 8.a) Wireless local Area Network
- 9.(d) Color
- 10.(a) I is correct
- 11.a)method and action
- 12.a) sitewide style sheet
- 13.b) Dynamic Hyper text Markup Language
- 14.C)63
- 15.b)Decryption

PART-II (2 MARKS)

16.

Data: Data is defined as an un-processed collection of raw facts, suitable for communication, interpretation or processing.

For example, 134, 16 'Kavitha', 'C' are data. This

Information is a collection of facts from which conclusions may be drawn.

For example Kavitha is 16 years old.

17.

Method 1

Using the FILE Menu

1. Select the File or Folder you wish to Rename.
2. Click File → Rename.
3. Type in the new name.

18.

CTRL+X	-	CUT
CTRL+C	-	COPY
CTRL+V	-	PASTE

19

a network is a collection of interconnected devices (such as computers, printers, etc.).

20.

Comments are used to describe the page or provide some kind of indication of the status of the page. The tag `<!-->` is used to create comments. In HTML, the text what you type within this tag is considered as comments and it is ignored by the browser. Comments never show up onscreen. Comments can be placed anywhere in HTML document.

The general form of comments:

```
<!-- comments -->
```

21.

Numbered list is created within the tag pair `` `` tag. The tag `` is used to present the list item in the list. Ordered list displays items in a numerical or alphabetical order. Both `` and `` tags are container tags. But the usual practice, closing tag `` is normally not used.

22.

`<Textarea>` tag

The `<Textarea>` tag is used to receive multi line text data as input. It is a container tag.

The main attributes of `<Textarea>` are

Name – Used to define a name to the control

Rows – Specifies the number of rows in the text area control

Cols – Specifies the number of columns in the text area. (number of characters in a line)

23.

The prompt dialog box is very useful when the user want to pop-up a text box to get user input. The prompt dialog box is displayed using a method called `prompt()` which takes two parameters: (i) a label which you want to display in the text box and (ii) a default string to display in the text box.

```
Prompt("Message","defaultValue");
```

(or)

```
window.prompt("sometext","defaultText");
```

24.

- 1
- 2
- 3
- 4
- 5

PART-III

25.

a) $(-22)_{10} + (15)_{10}$

	32	16	8	4	2	1
22-		1	0	1	1	0
15	0	0	1	1	1	1
-7	1	0	0	1	1	1

b) $(20)_{10} + (25)_{10}$

	32	16	8	4	2	1
20		1	0	1	0	0
25		1	1	0	0	1
45	1	0	1	1	0	1

26. advantage

1. Each task and each user get their time
2. Reduce the CPU ideal Time

disadvantage

1. problem in Reliability
2. it consumes many resources so it needs special operation
3. Need High Specification Hardware

27

- Click File → Save (or) File → Save As (or) Ctrl + S
- The “Save As” dialog box appears as on location Select location to store your document. The default location to store all documents is “Documents” folder in Windows.

• Type your document name in the File Name box.

- All documents in OpenOffice Writer will be stored with .odt extension. You can store your OpenOffice documents as Microsoft Word document or pdf. To do so, select file type from Save as type list box. This list box shows variety of formats to be saved.
- Finally, Click “Save” button.
- Once the file is saved, your document name will be displayed on the title bar.

28

attribute	Value to be set to attribute	Description
dir	ltr (align left-to-right) rtl (align right-to-left)	dir attribute specifies the direction of the text to be aligned within the entire document. It is global attribute. • ltr is the default value • rtl is used for Arabian languages.
lang	Predefined language code English – en Tamil – ta Telugu – te	lang attribute specify the language used with in the document. Predefined language code will be used for this purpose. Malayalam – ml; Kannada – kn; Hindi – hi; French – fr; German – de;

29.

<Input> Tag

Most of the form controls are created by using <input> tag. The <input> is an empty tag used to create different form elements or controls such as text box, radio buttons so on.

Attributes of <input> tag:

Type:

This attribute is used to define the type of control to be created by <input> tag. The values of type attribute is listed below:

Text

Password

Checkbox

Radio Button

Reset

Submit

Button

30

Increment operator	Decrement operator
<p>The ++ operator increments its single operand. The operator converts its operand to a number, adds 1 to that number, and assigns the incremented value back into the variable. The return value of the ++ operator depends on its position relative to the operand. When ++ is used before the operand, where it is known as the pre-increment operator, it increments the operand and evaluates to the incremented value of that operand. When used after the operand, where it is known as the post-increment operator, it increments its operand but evaluates to the un-incremented value of that operand. Consider the difference between these two lines code:</p> <pre>var m = 1, n = ++m; // m and n are both 2 var m = 1, n = m++; // m is 2, n is 1</pre>	<p>The -- operator decrements its single operand. It converts the value of the operand to a number, subtracts 1, and assigns the decremented value back to the operand. Like the ++ operator, the return value of -- depends on its position relative to the operand. When used before the operand, it decrements and returns the decremented value. When used after the operand, it decrements the operand but returns the undecremented value.</p> <p>Code:</p> <pre>var m = 2, n = --m; // m and n are both 1 var m = 2, n = m--; // n is 2, m is 1</pre>

32.

Function	Description	Example	Result
toUpperCase()	Used to convert given string into uppercase	<pre>x="java" x.toUpperCase();</pre>	JAVA
toLowerCase()	Used to convert given string into lowercase	<pre>x="JAVA" x.toLowerCase();</pre>	java
length	Used to find length of the given string	<pre>x="JAVA" x.length();</pre>	4

33.

```

<html>
<head>
<title> Nested List </title>
</head>
<body>
<OL>
<LI> Districts of Tamilnadu
<UL type=A>
<LI> Chennai
<LI> Madurai
<LI> Coimbatore
</OL>
</body>
</html>

```

PART-IV(5 MARKS)

34(a)

Conversion of fractional Binary to Decimal equivalent Follow the steps to convert fractional Binary number to its Decimalequivalent.

Step 1: Convert integral part of Binary to Decimal equivalent using positional notation method

Step 2: To convert the fractional part of binary to its decimal equivalent.

Step 2.1: Write down the Binary digits in the fractional part

Step 2.2: For all the digits write powers of 2 from left to right starting from 2^{-1} , 2^{-2} , 2^{-3} 2^{-n} , now write the equivalent weight.

98		
49	-	0
24	-	0
12	-	0
6	-	0
3	-	1
1	-	1

$$(98)_{10} = (110000)_2$$

$$0.46 * 2 = 0.92 \rightarrow 0 \quad 0.92 *$$

$$2 = 1.84 \rightarrow 1 \quad 0.84 * 2 =$$

$$1.68 \rightarrow 1$$

The complete binary representation of 98.46

is $(1100010.0111011001)_2$

34 (b)

The for loop is a very rigid structure that loops for a pre-set number of times. In JavaScript for structure is very flexible, and is very commonly used. The syntax of the for loop looks like the following:

```
for(initialization; condition; increment/decrement)
{
  Body of the loop;
}
```

The for structure consist of parts each separated by semicolon. They are,

1. The first part of the loop initialize a variable which is also called as control variable. In most case the control variable is declared as well as initialized.
2. The second part is the conditional statement that determines how many times the loop will be iterated.
3. The third and final part determines how the value of control variable is changed (Incremented/Decrement)

```
<Html>
<Head>
<Title> Program - To test for statement in JavaScript </Title>
</Head>
<Body>
<script language="javascript" type="text/javascript">
var no1 = prompt("Please enter Table You want :", "0");
document.write("<h2> Multiplication for your need </h2>");
for( var no2=0;no2<=10;no2++)
{
document.write(no1+" x "+no2+" = "+no1*no2+"<br>");
}
</script>
</Body>
</Html>
```

35(a)

1.Total sales of the year 2015	=	4285
2.Total sales in Coimbatore from 2012 to 2016	=	1600
3.total sales in Madurai and tiruchi during 2015 and2016=		4395
4.Average sales in Chennai 2012 to 2016		1760
5.in 2016 how many "air coolers" are sold in Chennai compared to Coimbatore		1700

36(b)

1. **Internet telephony using VoIP** (Voice-over-Internet Protocol) Example Skype

2. **Job search** :- Nowadays, many people search for their jobs online using naukri.com, monster.com, recruitmentindia.com etc as it is quicker .

3. **Online Shopping** :- The internet has also facilitated the introduction of a new market concept consisting of virtual shops. For example amazon.com

4. **Stock market updates** :- Selling or buying shares sitting on computer through internet. Several websites like ndtvprofit.com, moneypore.com, provide information regarding investment

5. **Travel** :- One can use internet to gather information about various tourist place. It can be used for booking Holiday tours. Some of the web sites providing this service are goibibo.com, makemytrip.com, olacabs.com.

36.(b)

```
<html>
<head>
<title> Heading </title>
</head>
<body>
< <h1 align=center> BETHANY HIGHER SECONDARY SCHOOL</h1>
<h2 align=center> MUGAPPAIR WEST</h2>
<h3 align=center> CHENNAI-37</h3>
</body>
</html>
```

OUTPUT

BETHANY HIGHER SECONDARY SCHOOL

MUGAPPAIR WEST

CHENNAI-37

36(b)

+	Addition	var sum = 20 + 120	Variable sum = 140
-	Subtraction	var diff = 20 - 120	Variable diff = 100
*	Multiplication	var prod = 10 * 100	Variable prod = 1000
/	Division	var res = 100/522	Variable res = 5.22
%	Modulus operator	var rem = 100 % 522	Variable rem = 22 (remainder)

EXAMPLE>

```

<Html>
<Head>
<Title>Demo Program – To test Arithmetic Operators in JavaScript
</Title>
</Head>
<Body>
<script language="javascript" type="text/javascript">
var value1 = 522, value2=10;
document.write("<br>Data1 : "+value1);
document.write("<br>Data2 : "+value2);
var sum = value1+value2;
var diff = value1-value2;
var prod = value1*value2;
var res = value1/value2;
var rem = value1%value2;
document.write("<br><br>The Sum of Data1 and Data2 : "+sum);
document.write("<br>The Difference of Data1 and Data2 : "+diff);
document.write("<br>The Product of Data1 and Data2 : "+prod);
document.write("<br>The Result after Division of Data1 and Data2 : "+res);
document.write("<br>The Remainder after Division of Data1 and Data2 :
"+rem);
</script>
</Body>
</Html>

```

37.(a)

Links:

Link is an important feature of HTML to connect web resources. Link in HTML is used to create hyperlinks to web content. Web content may be an HTML document or an external webpage or any multimedia content such as an image, video, audio, animation etc., or even a part of the current document.

Structure of an anchor tag with href:

```
<A href = " Web content path / URL " > Text – Clickable link </A>
```

Example:

```
<A href = "http://tncert.org/index.html">SCERT </A>
```

Clickable text

URL to load

The above link code creates the target of the hyperlink to the website <http://tncert.org/index.html>. At the time the user clicks the link, the browser opens the home page of the URL.

- An unvisited link is underlined and blue
- A visited link is underlined and purple
- An active link is underlined and red

Hyperlinks are considered either Internal or External links depending on their target.

External Link:

To Establish link with an external web page is known as external link. It is created by providing the URL of the external file in the HREF attribute of <A> tag of the current page.

37(b)

Piracy is
“unauthorized copying of software”.

Duplicating and selling copyrighted programs

Downloading software illegally through network

An entirely different approach to software piracy is called Shareware. Shareware publishers encourage users to give copies of programs to friends and colleagues but ask everyone who uses that program regularly to pay a registration fee to the program’s author directly. Commercial programs that are made available to the public

38.(a)

```
<html>
<head>
<title> HTML - Form and Controls </title>
</head>
<body>
<h3 align=center> Forms and Controls </h3>
<Form action="mailto:abcd.xyz@com" method=post>
<p> Student Name:
<Input type=text name=name size=30 maxlength=25></p>
<p> Gender:
<input type=radio name=gender value=boy> Boy
<input type=radio name=gender value=girl> Girl
</p>
<p> Subjects:
<input type=checkbox name=sub value=Tam> Tamil
<input type=checkbox name=sub value=Tel> Telugu
<input type=checkbox name=sub value=Eng> English
<input type=checkbox name=sub value=Phy> Physics
<input type=checkbox name=sub value=Eco> Economics
</p>
<input type=reset name=reset value="Clear">
<input type=submit name=submit value="Submit">
</Form>
</body>
</html>
```

38.(b)

a) Clock speed

Every microprocessor has an internal clock that regulates the speed at which it executes instructions. The speed at which the microprocessor executes instructions is called the clock speed. Clock speed is measured in MHz (Mega Hertz) or in GHz (Giga Hertz).

b) Instruction set

Basic set of machine level instructions that a microprocessor is designed to execute is called as an instruction set.

c) Word size

The number of bits that can be processed by a processor in a single instruction is called its word size. Word size determines the amount of RAM that can be accessed by a microprocessor.

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