

11th
STD**PUBLIC EXAMINATION - MARCH 2025**
PART - III
COMPUTER APPLICATIONS

Reg. No.

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Time Allowed : 3.00 Hours]**(With Answers)****[Maximum 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. **(15 × 1 = 15)**(ii) Choose the most appropriate answer from the given **four** alternatives and write the option code and the corresponding answer.

1. The expansion of POST is :
(a) Power on Self Test
(b) Post on Self Test
(c) Power on Self Text
(d) Power on Software Test
2. 2^{40} is referred as :
(a) Zeta (b) Tera (c) Kilo (d) Peta
3. Display devices are connected to the computer through :
(a) SCSI port (b) USB port
(c) VGA connector (d) PS/2 port
4. Operating System is a _____.
(a) System Software (b) Application Software
(c) Component (d) Hardware
5. What is the shortcut key to go to the start of the document?
(a) Home (b) Ctrl+Home
(c) End (d) Ctrl+End
6. Which is the first electronic spreadsheet?
(a) VisiCalc (b) Excel
(c) OpenOffice Calc (d) Lotus 1-2-3
7. Identify the extension of the Impress presentation.
(a) .odb (b) .odp (c) .ood (d) .ppt
8. Safari web browser was developed by :
(a) Microsoft (b) Google
(c) Linux Corpn. (d) Apple
9. Which one of the following is empty tag?
(a) <h1> (b)

(c) <html> (d) <p>

10. Pick odd one from the list :
(a) <dh> (b) <tr> (c) <td> (d) <th>
11. The tag used to insert an image in HTML :
(a) Img (b) Image (c) Pic (d) Picture
12. In the below snippet, value of x is :
var x = 350 + 2 - 200;
(a) 202 (b) 152 (c) 352 (d) 102
13. Which is mostly used to give a warning message to users?
(a) Prompt Dialog Box (b) Alert Dialog Box
(c) Display Dialog Box (d) Confirm Dialog Box
14. Which statement in switch case is used to exit the statement once the appropriate choice is found?
(a) Case (b) Exit (c) Break (d) Default
15. The first Tamil programming language is :
(a) Lippikar (b) Ezhil
(c) Tamil Unicode (d) E-Kalappai

PART - II**Note:** Answer **any six** questions. Question No. **24** is **Compulsory.** **(6 × 2 = 12)**

16. Distinguish between data and information.
17. Which source is used to erase the content of a EPROM?
18. What is meant by Software? List the types of Software.
19. What is a Cell Pointer?
20. Write short notes about "Normal View".
21. Write the general format of linking CSS with HTML.
22. Write the syntax of functions in JavaScript.
23. What is TSCII?
24. Find 1's Complement for the number $(-24)_{10}$.

PART - III

Note: Answer **any six** questions. Question No. **33** is **Compulsory**. **(6 × 3 = 18)**

25. Name any three output devices.
26. Classify the microprocessor based on the size of the data.
27. Differentiate copy and move.
28. In OpenOffice Writer, how do you insert rows and columns in a table?
29. What are the different Operating Systems used in computers and mobile devices?
30. Explain any three attributes available with <body> tag?
31. How will you scroll the text in HTML document?
32. What is called a loop and what are its types?
33. What message will be displayed, if the input for age is given as 18, for the following snippet?

```
if (age>=18)
{
  alert ("you are eligible to get Driving licence");
}
else
  alert ("you are not eligible to get Driving licence");
}
```

PART - IV

Note : Answer **all** the questions. **(5 × 5 = 25)**

34. (a) Explain the basic components of a computer with a neat diagram.
(OR)
 (b) Explain any five versions of Windows Operating System.
35. (a) What are the various crimes that happen while using computer?
(OR)
 (b) Write the steps to generate the following series using Fill command.
 5, 10, 20,, 2560
36. (a) Write a JavaScript program using loop statement to display the numbers from 1 to 10.
(OR)
 (b) Explain the different methods to change margin in writer.

37. (a) Explain the characteristics of a microprocessor.

(OR)

- (b) Explain the do's and don'ts of safe surfing on internet.
38. (a) Explain about the Relational Operator in JavaScript with suitable example.

(OR)

- (b) Write a HTML code a create the following table.

Class	Boys	Girls
VI	150	165
VII	146	151

Answers**PART - I**

1. (a) Power on Self Test 2. (b) Tera
3. (c) VGA connector 4. (a) System Software
5. (b) Ctrl+Home 6. (a) VisiCalc
7. (b) .odp 8. (d) Apple
9. (b)
 10. (a) <dh>
11. (a) Img 12. (b) 152
13. (b) Alert Dialog Box 14. (c) Break
15. (b) Ezhil

PART - II

16.

Data	Information
Data is defined as an unprocessed collection of raw facts, suitable for communication, interpretation or processing.	Information is a collection of facts from which conclusions may be drawn.
(Eg) 134, 16, 'Kavitha', 'C'	(Eg) Kavitha is 16 years old.

17. Ultra-violet-rays is used to erase the content of a EPROM.
18. A software is set of instructions that perform specific task. It interacts basically with the hardware to generate the desired output.
 Software is classified into two types:
 1) Application Software
 2) System Software

19. Cell pointer is a rectangle box which can be moved around the worksheet.
20. Normal view is the main view for creating individual slides. Use this view to format and design slides and to add text, graphics and animation effects.
21. General format of <Link> tag
 <Link rel = "stylesheet" type = "text/css" href = CSS_ File_Name_with_Extension>
22. The format of a function definition is
 Function function-name(parameters list)
 {
 { Declaration of variable }
 { Executable statements; } Function Body
 }
23. TSCII (Tamil Script Code for Information Interchange) is the first coding system to handle our Tamil language in an analysis of an encoding scheme that is easily handled in electronic devices, including non-English computers. This encoding scheme was registered in IANA (Internet Assigned Numbers Authority) unit of ICANN.
24. 1's complement for $(-24)_{10}$
- | | | |
|------------------------------------|---|--------|
| | 2 | 24 |
| Given Number : $(-24)_{10}$ | 2 | 12 - 0 |
| Binary Number : 00011000 | 2 | 6 - 0 |
| 1's Complement : 11100111 | 2 | 3 - 0 |
| | | 1 - 1 |

PART - III

25. (i) Monitor (ii) Printer
 (iii) Plotter
26. Microprocessors can process instructions. The microprocessors can be classified as follows based on the size of the data.
- 8-bit microprocessor
 - 16-bit microprocessor
 - 32-bit microprocessor
 - 64-bit microprocessor
27. Copy is to make a copy of the selected file or folder and place the duplicate in another drive or folder, while move is to move the original files from one place to another location. The move command deletes the original files, while copy retains them.
28. **To insert rows or columns inside a table:**
- (i) Place the insertion pointer in the row or in the column where you would like to add new rows or columns and right-click.
- (ii) Choose Row → Insert – to insert a new row or Column → Insert – to insert a new column.
 A dialog box will appear, from which you can select the number of rows or columns to insert. You can also set the position of the new rows or columns to Before or After.
29. Some of the popular Operating Systems used in computers are Windows, UNIX and Linux. The mobile devices mostly use Android and iOS as mobile OS.
30. The <body> tag defines the documents body. The contents of an HTML page reside within the <body> tag. <body> tag contains several attributes.
- (i) **Background Colour: bgcolor = color**: By default all the browsers display the text on white background. However, the background color of the browser can be changed by using bgcolor tag.
The tag to change background colour :
 <body bgcolor = color_name/color_code>
 <body bgcolor = yellow>
- (ii) **Body text Colour : text = color**: The default text colour of body section is "black", it is often called as automatic color, text attribute within body tag is used to change the text colour.
The tag to change body text colour:
 <body text = color_name/color_code>
 <body text = #FFFF00>
- (iii) **Background image : background = image**: An image or picture can be applied as background to a webpage. When you insert an image as background, the text will be displayed on top of the image. Background images can be a texture or bitmap or even a photo.
The tag to apply an image as background:
 <body background = "image_name_with_extension">
 <body background = "E:\Images\ flower01. gif">

31. In HTML, a piece of text or image can be moved horizontally or vertically by using <marquee>tag. This feature makes a web page as more attractive.

General format :

<marquee>Text or image to be scroll</marquee>
attributes of <marquee>

- (i) **Height and width :** These attributes are used to set height and width of the marquee. The values should be either in pixels or in percentage the browser window.
 - (ii) **Direction :** This is used to specify the direction of the movement of text or image. The text or image will move towards right to left by default. So, the default direction is left. The Possible values are 'up', 'down', 'left' or 'right'.
 - (iii) **Behaviour :** This attribute is used to specify the type of scrolling. The values are 'scroll', 'slide' and 'alternate'.
 - (iv) **ScrollDelay :** This attribute is used to define the time delay between each jump. The time unit should be in seconds.
32. In JavaScript there are times when the same portion of code needs to be executed many times with slightly different values called as Loops. JavaScript supports three kinds of looping statements. They are
- for loop
 - while loop
 - do..while loop
33. You are eligible to get Driving Licence.

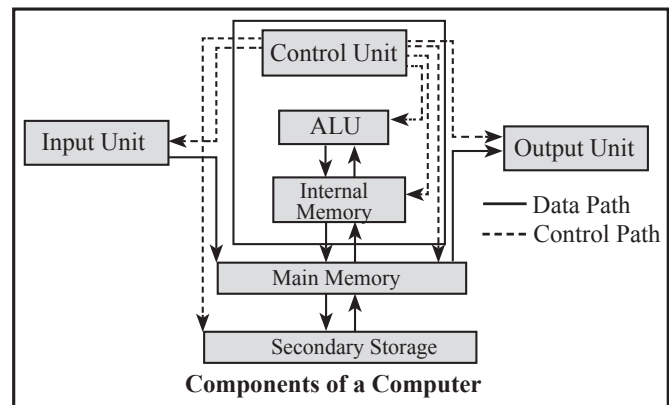
PART - IV

34. (a) Components of a Computer :

The computer is the combination of hardware and software. Hardware is the physical component of a computer like motherboard, memory devices, monitor, keyboard etc., while software is the set of programs or instructions. Both hardware and software together make the computer system to function. Every task given to a computer follows an Input-process - output cycle (IPO cycle).



- (i) **Input unit :** Input unit is used to feed any form of data to the computer, which can be stored in the memory unit for further processing.
Example : keyboard, mouse etc.
- (ii) **Central Processing Unit :** CPU is the major component which interprets and executes software instructions. It also control the operation of all other components such as memory, input and output units.
- (iii) **Arithmetic and Logic Unit :** The ALU is a part of the CPU where various computing functions are performed on data. The ALU performs arithmetic operations such as addition, subtraction, multiplication, division and logical operations.



- (iv) **Control Unit :** The control unit controls the flow of data between the CPU memory and I/o devices. It also controls the entire operation of a computer.
- (v) **Output Unit :** An output unit is any hardware component that convey information to users in an understandable form. Example : Monitor, Printer etc.

(vi) **Memory Unit** : The Memory Unit is of two types which are primary memory and secondary memory. The primary memory is used to temporarily store the programs and data when the instructions are ready to execute. The secondary memory is used to store the data permanently. The Primary Memory is volatile, that is, the content is lost when the power supply is switched off. The Random Access Memory (RAM) is an example of a main memory. The Secondary memory is non volatile, that is, the content is available even after the power supply is switched off. Hard disk, CD-ROM and DVD ROM are examples of secondary memory.

(OR)

(b)

Versions		Year	Specific features
1.	Windows 1.x	1985	1. Introduction of GUI in 16 - bit. processor 2. Mouse was introduced as an input device.
2.	Windows 2.x	1987	1. Supports to minimize or maximize windows. 2. Control panel feature was introduced with various system settings and customising options.
3.	Windows 3.x	1992	1. Introduced the concept of multitasking. 2. Supported 256 colours which brought a more modern, colourful look to the interface.
4.	Windows 95	1995	1. Introduced Start button, the taskbar, Windows Explorer and Start menu. 2. Introduced 32 - bit processor and focused more on multitasking.
5.	Windows 98	1998	1. Integration of the Web browser (Internet Explorer) with the Operating System. 2. DOS gaming began to disappear as Windows based games improved. 3. Plug and play feature was introduced.

35. (a)

Crime	Function
Crime Functions	Hacking, threats, and blackmailing towards a business or a person.
Cyber stalking	Harassing through online.
Malware	Malicious programs that can perform a variety of functions including stealing, encrypting or deleting sensitive data, altering or hijacking core computing functions and monitoring user's computer activity without their permission.
Denial of service attack	Overloading a system with fake requests so that it cannot serve normal legitimate requests.
Fraud	Manipulating data, for example changing the banking records to transfer money to an unauthorized account.
Harvesting	A person or program collects login and password information from a legitimate user to illegally gain access to others, account(s).
Identity theft	It is a crime where the criminals impersonate individuals, usually for financial gain.
Intellectual property theft	Stealing practical or conceptual information developed by another person or company
Salami slicing	Stealing tiny amounts of money from each transaction.
Scam	Tricking people into believing something that is not true.

(OR)

- (b) Step to generate the series 5, 10, 20 2560
- Step 1 :** Select the required number of cells to generate the series.
- Step 2 :** Click EDIT → FILL, the Fill Series dialog box appear.
- Step 3 :** Select Direction Down in fill series dialog box.
- Step 4 :** Select the Series type growth.
- Step 5 :** Initial value of the series 5 should be typed in start value box.
- Step 6 :** Maximum value of the series 2560 should be typed in End value box.
- Step 7 :** The value 2 should be typed in Increment box.
- Step 8 :** Click Ok.

36. (a) <Html>
<Head>
 <Title> Program-To display 10 natural number
 </Title>
 </Head>
 <body>
 <script language="Javascript" type="text /
 Javascript">
 document.write("<h2>The First 10 natural
 Numbers</h2>");

 var n=1;
 while (n<=10)
 {
 document.write(n+"
");
 n = n + 1;
 }
 </script>
 </body>
 </Html>

(OR)

- (b) Page margins are the white space around the top, bottom, left and right of your document.

Changing or setting page margins in openoffice writer can be done in two ways:

- Using the Rulers - quick and easy, but does not have precise values.
- Using the Page Style dialog box - can specify precise values for the margins.

Changing Page Margins using Ruler :

- The shaded sections of the rulers are the margins.
- Hold the mouse pointer over the line between the gray and white sections.
- The mouse pointer turns into a double-headed arrow.
- Hold down the left mouse button and drag the mouse to move the margin and release it at the required point.
- The new margin is set.

Using the Page Style Dialog Box:

To change margins using the Page Style dialog box

- Right-click anywhere on the page and select Page from the popup menu or select page tab of page style dialog box.
- In the Margins boxes, specify the values for left, right, top and bottom margins.
- Click on OK button.

37. (a) A Microprocessor's performance depends on the following characteristics:

- Clock speed
- Instruction set
- Word size

(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 clock speed.
Clock speed is measured in MHz (Mega Hertz) or in GHz (Giga Hertz).

(b) Instruction set :

- A command which is given to a computer to perform an operation on data is called an instruction.
- Basic set of machine level instructions that a microprocessor is designed to execute is called as an instruction set. This instruction set carries out the following types of operations:
 - Data transfer
 - Arithmetic operations
 - Logical operations
 - Control flow
 - Input/output

(c) Word Size :

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

(OR)**(b) Following is the do's and don't of safe surfing on Internet :**

- (i) Don't give out your personal information - Don't put personal details such as your home address, telephone numbers or parent's work address online as cybercriminals can use this information to create a fake profile with your details.
- (ii) What goes online, stays online - Use privacy settings to make sure only your friends and family can see photos you post. Avoid posting holiday plans as criminals may track your movements.
- (iii) Check your security and privacy settings - Make sure your social network privacy settings are secured so only your friends can see your personal information and use your privacy settings to restrict who can see your posts, videos and photos.
- (iv) Password safety - Sharing your password with your parents is a sensible idea, but avoid sharing your password with your friends, even if they promise they won't tell anyone! Also, when setting your password, make sure it isn't something people may guess such as your pet's name. Use a mixture of letters, numbers and upper and lower case characters.
- (v) Always protect your mobile device - Make sure your mobile phone is pin-protected so all your personal information stored on it is safe. Download a security app which allows you to remotely wipe any personal data, should your mobile be lost or stolen.
- (vi) Don't talk to strangers online or offline - Don't meet up with strangers and let your parents know if a stranger has tried to get in contact with you online.

38. (a) Relational operators are also called as Comparison operators, they compare two values and the result is true or false. JavaScript provides a rich set of relational operators including == (equal to), != (not equal to), < (less than), > (greater than), <= (less than or equal to), and >= (greater than or equal to). Using a relational operator in an expression causes the expression to evaluate as true if the condition holds or false if otherwise.

Relational (Comparison) Operator	Meaning	Example	Result
Assume x=10 and y=20			
==	Equality	x==y	False
!=	In-Equality	x!=y	True
<	Less-than	x<y	True
>	Greater-than	x>y	False
<=	Less-than or equal to	x<=y	True
>=	Greater-than or equal to	x>=y	False

(OR)

(b) Coding :

```
<html>
<head>
<title>table</title>
</head>
<body>
<table border=6>
<tr>
<th>class</th>
<th>boys</th>
<th>girls</th>
</tr>
<tr>
<th>VI</th>
<th>150</th>
<th>165</th>
</tr>
<tr>
<th>VII</th>
<th>146</th>
<th>151</th>
</tr>
</table>
</body>
</html>
```

★ ★ ★