

Virudhunagar District
Common Half Yearly Examination - December 2023
Standard - 11
Computer Application[Answer key]

PART - I

Choose the correct answer

- 1) Mouse
- 2) 11011001
- 3) Complex instruction set computers
- 4) Shutdown the computer without the running application
- 5) Title bar
- 6) 1979
- 7) F5
- 8) World Wide Web Consortium
- 9)

- 10) Highlight
- 11) .css
- 12) Common gateway interface
- 13) Repitative
- 14) Library Function
- 15) Warez

PART - II

Answer Any Six -Compulsory Qn.no 22]

16) Date : Data is defined as an **unprocessed collection of raw facts**, suitable for communication, interpretation or processing.

Eg: 134, 16, 'Kavitha' 'C' are data. This will not give any meaningful message.

Information: Information is a **collection of facts** from which conclusions may be drawn. Eg: Kavitha is 16 years old.

17) There are **two basic types of RAM**

- **Dynamic RAM (DRAM)**
- **Static RAM (SRAM)**

18) Files: 1. A file is a **collection of data on a single unit**. It can be anything from a word file to a music, video or photo file.

2. Files have a size ranging from a few bytes to several giga bytes.

Folders: 1. Folders are **places where files are stored**. Folders can contain folders inside them.

3. Folders take **up no space on hard drive**.

19) Yes, you can edit the contents of a cell in several distinct ways. Use this method convenient for you,

1. Double-click the cell you would like to edit. The cursor is placed where you double clicked.

2. Press the F2 key, the cursor is placed at the end of the text.

3. Click anywhere in the formula bar. The formula bar changes to have an entered and check mark.

20) Internet Corporation for Assigned Names and Numbers (ICANN) administers the **domain name registration**. It helps to **avoid a name which is already registered**.

21) The <big> tag is used to define the **text bigger in size than the normal size**. It is often used to call attention to a text.

The <small> tag is used to **define the text smaller than the current size**.

These two tags are container tags.

22) General format of linking CSS with HTML

<Link rel = "stylesheet" type = "text/css" href = CSS_File_Name_with_Extension>

- 23) Break Statement: 1. The break statement will terminate the loop early.
 2. The break statement is executed and the loop is terminated.
- Continue Statement: 1. The continue statement will skip back to the loop condition check.
 2. When the continue statement is executed, the current iteration of the enclosing loop is terminated.

24) A cookie is a small piece of data sent from a website and stored on the user's computer memory by the user's web browser while the user is browsing internet.

PART - III

Answer Any Six question [Compulsory Qn.no 25]

25)

Binary number:

2	150	
2	75 - 0	↑
2	37 - 1	
2	18 - 1	
2	9 - 0	
2	4 - 1	
2	2 - 0	
1	- 0	

$(150)_{10} = (10010110)_2$

Binary number to octal:

010	010	110
2	2	6

$(010010110)_{10} = (226)_8$

26) The key features/characteristics of the operating system are:

- | | | |
|-------------------------------|-----------------------------|------------------------------|
| 1. User Interface | 2. Memory Management | 3. Process Management |
| 4. Security Management | 5. Fault Tolerance | 6. File Management. |

27) Move: 1) When an object is moved from a document, it is completely removed and placed into a clipboard.

2) Ctrl+X and Ctrl+V is the shortcut command for cut and paste.

Copy:

1) When an object is copied a duplicate of it is placed into a clipboard while the original remains in place.

2) Ctrl+c and ctrl+v is the shortcut command for copy and paste.

(Or)

To copy a text from one location to another

- select the text to be copied
- Click Ctrl + C or Copy Icon or

Edit → Copy

- A duplicate copy of the text is made and sent to the clipboard
- Take the insertion pointer to the new location to be copied and
- Click Ctrl + V or Paste Icon or Edit → Paste

The required text is copied to the new location.

To move a text from one location to another

- Select the text to be moved
- Click Ctrl + X or Cut Icon or Edit → Cut
- The text is removed from the source location and placed in the clipboard
- Take the insertion pointer to the new location to be moved and
- Click Ctrl + V or Paste Icon or Edit → Paste

The required text is moved to the new location.

28) Slide sorter view is to rearranged the sliders. A thumbnail of each slide in order, use this view to rearrange the order of slides, produce a timed slide show, or add transitions between selected slides. The tasks pane on the right displays four pages that allow you to specify the master slide, layout, transitions, and animation effects for the object on your slides.

29) <html> tag has two attributes viz. dir and lang to specify the text direction and language setting respectively.

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 a 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 within the document. Predefined language code will be used for this purpose. Malayalam - ml; Kannada - kn; Hindi - hi; French - fr; German - ge;

30) The tag along with the attribute src (Source) is used to add images in HTML document.

General format:

(OR)

Example:

Src attribute is the main attribute used to specify the file name of the image to be inserted. If the image is not in the current working folder, the image file name should clearly specify with the path of the file or URL, where the file is available.

Example:

31) The + operator performs addition on numbers but also serves as the concatenation operator for strings. Because string concatenation has precedence over "numeric addition, + will, be interpreted as string concatenation if any of the operands are strings. + operator which is also called as the string concatenation operator.

32)

<html>

<body>

<script>

var I,n=10,sum=0;

arr = new array(1,2,3,4,5,6,7,8,9,10);

var sum =sumno();

document.writeln("Sum of 10 number is :"+sum);

function sumno()

{

for(i=0;i<10;I++)

```

sum=sum+arr[I];
return sum;
}
</script>
</body>
</html>

```



33) Programming languages to develop software in computers and smart phones are available only in English. Based on Python programming language, the first Tamil programming language “Ezhil” (எழில்) is designed.




PART-IV

Answer the Following Question

34)a)

| SN | Generation | Period | Main Component used | Merits/Demerits |
|----|------------------|-----------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | First Generation | 1940-1956 | 
Vacuum tubes | <ul style="list-style-type: none"> • Big in size • Consumed more power • Malfunction due to overheat • Machine Language was used |

| First Generation Computers - ENIAC , EDVAC , UNIVAC 1
ENIAC weighed about 27 tons, size 8 feet × 100 feet × 3 feet and consumed around 150 watts of power | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Second Generation | 1956-1964 | 
Transistors | <ul style="list-style-type: none"> • Smaller compared to First Generation • Generated Less Heat • Consumed less power compared to first generation • Punched cards were used • First operating system was developed - Batch Processing and Multiprogramming Operating System • Machine language as well as Assembly language was used. |
| Second Generation Computers IBM 1401, IBM 1620, UNIVAC 1108 | | | | |
| 3 | Third Generation | 1964-1971 | 
Integrated Circuits (IC) | <ul style="list-style-type: none"> • Computers were smaller, faster and more reliable • Consumed less power • High Level Languages were used |
| Third Generation Computers IBM 360 series, Honeywell 6000 series | | | | |

| | | | | |
|---|--------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Fourth Generation | 1971-1980 | 
Microprocessor
Very Large Scale Integrated Circuits (VLSI) | <ul style="list-style-type: none"> • Smaller and Faster • Microcomputer series such as IBM and APPLE were developed • Portable Computers were introduced. |
| 5 | Fifth Generation | 1980 - till date | 
Ultra Large Scale Integration (ULSI) | <ul style="list-style-type: none"> • Parallel Processing • Super conductors • Computers size was drastically reduced. • Can recognise Images and Graphics • Introduction of Artificial Intelligence and Expert Systems • Able to solve high complex problems including decision making and logical reasoning |
| 6 | Sixth Generation | In future |  | <ul style="list-style-type: none"> • Parallel and Distributed computing • Computers have become smarter, faster and smaller • Development of robotics • Natural Language Processing • Development of Voice Recognition Software |

B)

(a) Add $1101010_2 + 101101_2$ (b) Subtract $1101011_2 - 111010_2$

Answer:

(a) $1101010_2 + 101101_2$

$$\begin{array}{r}
 1101010 \\
 (+) \quad 101101 \quad 1+1=10 \\
 \hline
 10010111
 \end{array}$$

$$1101010_2 + 101101_2 = 10010111_2$$

(b) $1101011_2 - 111010_2$

$$\begin{array}{r}
 1101011 \\
 (-) \quad 111010 \\
 \hline
 110001
 \end{array}$$

$$1101011_2 - 111010_2 = 110001_2$$

35) a) A Microprocessor's performance depends on the following characteristics:

1. Clock speed 2. Instruction set 3. Word size.

1. 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).

2. 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.

3. 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 at one time and the total number of pins on the microprocessor. Total number of input and output pins in turn determines the architecture of the microprocessor.

B) To find a file or folder:

1. Click the Start button, the search box appears at the bottom of the start menu.
2. Type the name of the file or the folder you want to search. Even if you give the part of the file or folder name, it will display the list of files or folders starting with the specified name.
3. The files or the folders with the specified names will appear, if you click that file, it will directly open that file or the folder.
4. There is another option called "See more results" which appears above the search box.
5. If you click it, it will lead you to a Search Results dialog box where you can click and open that file or the folder.

Searching Files or folders using Computer icon

1. Click Computer Icon from desktop or from Start menu.
2. The Computer disk drive screen will appear and at the top right corner of that screen, there is a search box option.
3. Type the name of the file or the folder you want to search. Even if you give the part of the file or folder name, it will display the list of files or folders starting with the specified name.
4. Just click and open that file or the folder.

36) A) You can create a presentation by any one of the following types.

1. By selecting an Empty presentation.
2. By selecting From template.
3. By selecting from Open existing presentation.

Using Empty presentation

1. Select Empty presentation under Type. It creates a presentation from scratch.
2. Click Next. The Presentation Wizard step 2 appears.
3. Choose a design under Select a slide design. The slide design section gives you two main choices: Presentation Backgrounds and Presentations.
4. Each one has a list of choices for slide designs. If you want to use one of these other than the <Original>, click it to select it. The preview of the same will be shown in the preview pane.
5. <Original> is an empty background. You can also select among three predefined Presentations: <Original>, Introducing a New Product, and Recommendation of a Strategy.
6. Click an item to see a preview of the slide design in the Preview window.
7. Select how the presentation will be used under Select an output medium. Generally, presentations are created for computer screen display, so select Screen option.
8. Click Next. The Presentation Wizard step 3 appears. In this step, you can choose the desired slide transition from the Effect drop-down menu. Select the desired speed for the transition between the different slides in the presentation from the Speed drop-down menu. Medium is a good choice. Click Create. A new presentation is created.

Using Template

- If you choose the option From template, it uses a template design already created as the basis for a new presentation. The wizard changes to show a list of available templates. Choose the template that you want.
- Introducing a New Product and Recommendation of a Strategy are pre-packaged presentation templates.

Using Open existing presentation

- If you choose the option Open existing presentation, it helps in continuing the work on a previously created presentation.
- You have to open a presentation already prepared by clicking Open button. The wizard changes to show a list of existing presentations, from which you can choose the one that you want.

B) Explain Any 5 Internet Application

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.
6. Research :- Research papers are present online which helps the researcher do a literature review
7. Video conferencing :- It enables direct face-to-face communication across networks via web cameras, microphones, and other communication tools.
8. e-commerce :- e-commerce (electronic commerce or EC) is the buying and selling of goods and services, or the transmitting of funds or data, Largest e-commerce companies in India are Flipkart, Snapdeal, Amazon India, Paytm.
9. Online payments :- The rising boom of online payments in India has given way to many new entrants in the industry such as Paytm etc who are majorly wallet driven payment companies.
10. Social Networking :- Social networking is the use of internet-based social media programs to make connections with friends, family etc. Examples of social networking includes Facebook
11. Voicemail :- Voicemail is a system of sending messages over the phone.
12. Chatting :- On the Internet, chatting is talking to other people who are using the Internet at the same time you are.
13. e-banking :- e-banking (Online banking) , also known as internet banking, it is an electronic payment system that enables customers of a bank or other financial institution to conduct a range of financial transactions through the financial institution's website.
14. e-learning :- e-Learning are courses that are specifically delivered via the internet to somewhere other than the classroom where the professor is teaching. It is not a course delivered via a DVD or CD-ROM, video tape or over a television channel

37)A)

```

<html>
  <head>
    <title>Avantika Shah College</title>
  </head>
  <body>
    <h1>SCHOOL NAME: Avantika Shah College</h1>
    <h2>
      ADDRESS:<br/>
      Avantika Shah College,<br/>
      Vijay nagar,<br/>
      Jaipur 302001.
    </h2>
  </body>
</html>

```

B) HTML supports three types of lists viz. numbered, unnumbered and definition. These lists are called as Ordered List, Unordered List and Definition List respectively.

1. Numbered List / Ordered List

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.

Un-numbered List / Unordered List: Unordered lists are often referred as bulleted lists. Instead of numbers, each element in the list has prefixed with a special bullet symbol. Unordered list is surrounded within tags. As discussed above, each list element is defined by tag.

3. Definition List

Definition list is different from other two types of list. No bullet or number is provided for the list items. In this list type, the list element has two parts.

(1) A definition term

(2) The definition description

Definition list is surrounded within <DL> </DL> tags.

Definition term is presented in between <DT> </DT> tag and

Definition description should be surrounded within <DD> </DD> tag.

38)A)

```

---CSS_Test.htm---
<html>
<head>
<title> Demonstration of using CSS </title>
<link rel="stylesheet" type="text/css" href="mystyle.css">
</head>
<body bgcolor = yellow>
<H1> State Institute of Education (SIE) </H1>
<P>
The State Institute of Education (SIE) was established in 1965
to provide for systematic study of problems relating to school
Education under the administration of Directorate of School Education.
</P>
</body>
</html>

```



```

Mystyle.css

H1
{
  font-family : "Comic Sans MS";
  Font-weight : Bold;
  border:2px solid blue;
}
P {
  Font-family : "Copper Black";
  font-style : Italic;
  color : Blue;
  Font-weight : bold;
}

```

B)

Table 17.2 - Cyber Attacks and Functions

| S.No. | Cyber Attack | Function |
|-------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Virus | A virus is a small piece of computer code that can repeat itself and spreads from one computer to another by attaching itself to another computer file. One of the most common virus is Trojan . A Trojan virus is a program that appears to perform one function (for example, virus removal) but actually performs malicious activity when executed. |
| 2. | Worms | Worms are self-repeating and do not require a computer program to attach themselves. Worms continually look for vulnerabilities and report back to the author of the worm when weaknesses are discovered. |
| 3. | Spyware | Spyware can be installed on the computer automatically when the attachments are open, by clicking on links or by downloading infected software. |
| 4. | Ransomware | Ransomware is a type of malicious program that demands payment after launching a cyber-attack on a computer system. This type of malware has become increasingly popular among criminals and costs the organizations millions each year. |

Common Half Yearly Virudhunagar District QA Paper 2023

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| <p>V11CA Virudhunagar District
Common Half Yearly Examination - December 2023</p> <p style="text-align: center;">Standard 11</p> <p style="text-align: center;">COMPUTER APPLICATION</p> <p>Time: 3.00 Hrs. Marks: 70</p> <p style="text-align: center;">PART - I</p> <p>Choose the correct answer: 15x1=15</p> <ol style="list-style-type: none"> Identify the input device
a) Printer b) Mouse c) Plotter d) Projector What is the 1's complement of 00100110?
a) 00100110 b) 11011001 c) 11010001 d) 00101001 Expansion of CISC is
a) Complex Instruction Set Computers
b) Character Instruction Set Computers
c) Character Instruction Set Command
d) Computer Instruction Set Command What is the meaning of "Hibernate" in Windows XP/Windows 7?
a) Restart the Computer in safe mode
b) Restart the Computer in hibernate mode
c) Shutdown the Computer terminating all the running applications
d) Shutdown the Computer without the running applications Which is displayed at the top part of the window?
a) Menu bar b) Tool bar c) Title bar d) Format bar Visicalc introduced in the year
a) 1975 b) 1979 c) 1982 d) 1987 Which is the shortcut key to view the slide show?
a) F6 b) F9 c) F5 d) F10 Expansion of W3C
a) World Wide Web Consortium
c) World Wide Consortium The tag used in inset a line break
a) <hl> b)
 c) <html> d) <p> Which feature is used to call attention to the reader?
a) Highlight b) Bold c) Italics d) Underline The extension of CSS file is
a) .ssc b) .css c) .csc d) .htm Expand CGI
a) Common Gateway Interface
c) Common Gateway Information The rename of loop
a) Branching b) Selection c) Repitative d) None of these Predefined functions are also called as
a) Library functions b) Storage functions
c) Instructions d) Commands Commercial programs made available to the public illegally are known as
a) freeware b) warez c) free software d) software | <p>V11CA 2
PART - II</p> <p>Answer any SIX questions: [Compulsory Qn.No. 22] 6x3=12</p> <ol style="list-style-type: none"> Distinguish between data and information. What are the types of Random Access Memory? Differentiate Files and Folders. Can you edit the contents of a cell? If Yes, explain any one of the method of editing the cell content. What is the role of ICANN? Explain the use of <big> and <small> tags. Write the general format of linking CSS with HTML. Differentiate the break and continue statement. What is a Cookie? <p style="text-align: center;">PART - III</p> <p>Answer any SIX questions: [Compulsory Qn.No. 25] 6x3=18</p> <ol style="list-style-type: none"> Convert $(150)_{10}$ into Binary, then convert that Binary number to Octal. List the characteristics of operating system. What is the different between moving and copying text? Define the Slide Sorter view and its significance. What are the attributes available in <html> tags? How to insert images in HTML document? Write note on string Operator. Write a program in JavaScript to find the sum of 10 numbers using function. Write a short note about Tamil Programming Language. <p style="text-align: center;">PART - IV</p> <p>Answer the following questions: 5x5=25</p> <ol style="list-style-type: none"> <ol style="list-style-type: none"> Discuss the various generation of computers. (OR) <ol style="list-style-type: none"> Add : $1101010_2 + 101101_2$ Subtract : $1101011_2 - 111010_2$ <ol style="list-style-type: none"> Explain the characteristics of a microprocessor. (OR) Explain the different ways of finding a file or folder. (OR) <ol style="list-style-type: none"> How to create a new presentation? (OR) Explain any five Internet application with suitable examples. (OR) <ol style="list-style-type: none"> Write a HTML program to display your school name and address using various grading level tags. (OR) Explain the types of list with suitable HTML code. <ol style="list-style-type: none"> Write an HTML document to display the following paragraph as per the given description Using CSS.
* Font Name : Cooper Black
* Style : Bold Italic
* Color : Blue
"The State Institute of Education (SIE) was established in 1965 to provide for systematic study of problems relating to School Education under the administration of Directorate of School Education". (OR) Write a different types of cyber attacks.
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Answer Key Prepared By:

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