

# 1. Introduction to Computers

## SECTION – A

Choose the correct answer

1. First generation computers used  
(a) **Vacuum tubes** (b) Transistors (c) Integrated circuits (d) Microprocessors
2. Name the volatile memory  
(a) ROM (b) PROM (c) **RAM** (d) EPROM
3. Identify the output device  
(a) Keyboard (b) Memory (c) **Monitor** (d) Mouse
4. Identify the input device  
(a) Printer (b) **Mouse** (c) Plotter (d) Projector
5. .... Output device is used for printing building plan.  
(a) Thermal printer (b) **Plotter** (c) Dot matrix (d) inkjet printer
6. Which one of the following is used to in ATM machines  
(a) **Touch Screen** (b) speaker (c) Monitor (d) Printer
7. When a system restarts which type of booting is used.  
(a) **Warm booting** (b) Cold booting (c) Touch boot (d) Real boot.
8. Expand POST  
(a) Post on self Test (b) Power on Software Test  
(c) **Power on Self Test** (d) Power on Self Text
9. Which one of the following is the main memory?  
(a) ROM (b) **RAM** (c) Flash drive (d) Hard disk
10. Which generation of computer used IC's?  
(a) First (b) Second (c) **Third** (d) Fourth

## SECTION – B

Very Short Answers

1. What is a computer?
2. Distinguish between data and information.
3. What are the components of a CPU?
4. What is the function of an ALU?
5. Write the functions of control unit.
6. What is the function of memory?
7. Differentiate Input and output unit.
8. Distinguish Primary and Secondary memory.

## SECTION – C

Short Answers

1. What are the characteristics of a computer?
2. Write the applications of computer.
3. What is an input device? Give two examples.
4. Name any three output devices.
5. Differentiate optical and Laser mouse
6. Write short note on impact printer
7. Write the characteristics of sixth generation.
8. Write the significant features of monitor.

## SECTION – D

Explain in detail

1. Explain the basic components of a computer with a neat diagram. Discuss the various generations of computers.
2. Explain the following a. Inkjet Printer b. Multimedia projector c. Bar code / QR code Reader

## 2. Number Systems

SECTION – A Choose the correct answer:

1. Which refers to the number of bits processed by a computer's CPU?  
A) Byte                      B) Nibble                      **C) Word length**                      D) Bit
2. How many bytes does 1 Kilo Byte contain?  
A) 1000                      B) 8                      C) 4                      **D) 1024**
3. Expansion for ASCII  
A) American School Code for Information Inter change  
**B) American Standard Code for Information Interchange**  
C) All Standard Code for Information Interchange  
D) American Society Code for Information Interchange
4.  $2^{50}$  is referred as  
A) Kilo                      B) Tera                      **C) Peta**                      D) Zetta
5. How many characters can be handled in Binary Coded Decimal System?  
**A) 64**                      B) 255                      C) 256                      D) 128
6. For  $1101_2$  the equalent Hexadecimal equivalent is?  
A) F                      B) E                      **C) D**                      D) B
7. What Is the 1's complement of 00100110?  
A) 00100110                      **B) 11011001**                      C) 11010001                      D) 00101001
8. Which amongst this is not an Octal number?  
A) 645                      B) 234                      **C) 876**                      D) 123

SECTION – B

Very Short Answers

1. What is data?
2. Write the 1's complement procedure.
3. Convert  $(46)_{10}$  into Binary number
4. We cannot find 1's complement for  $(28)_{10}$ . State reason.
5. List the encoding systems that represents characters in memory.

SECTION – C

Short Answers

1. What is radix of a number system? Give example
2. Write note on binary number system.
3. Convert  $(150)_{10}$  into Binary, then convert that Binary number to Octal
4. Write short note on ISCI
5. Add a)  $-22_{10} + 15_{10}$  b)  $20_{10} + 25_{10}$

SECTION – D

Explain in detail

1. A) Write the procedure to convert fractional Decimal to Binary b) Convert  $(98.46)_{10}$  to Binary
2. Find 1's Complement and 2's Complement for the following Decimal number a) -98 b) -135
3. A) Add  $11010102 + 1011012$  b) Subtract  $11010112 - 1110102$

## LESSON – 3. Computer Organisation

### SECTION – A Choose the correct answer

- Which of the following is said to be the brain of a computer?  
(a) Input devices      (b) Output devices      (c) Memory device      **(d) Microprocessor**
- Which of the following is not the part of a microprocessor unit?  
(a) ALU      (b) Control unit      **(c) Cache memory**      (d) register
- How many bits constitute a word?  
(a) 8      (b) 16      (c) 32      **(d) determined by the processor used.**
- Which of the following device identifies the location when address is placed in the memory address register?  
(a) Locator      (b) encoder      **(c) decoder**      (d) multiplexer
- Which of the following is a CISC processor?  
(a) Intel P6      (b) AMD K6      **(c) Pentium III**      (d) Pentium IV
- Which is the fastest memory?  
(a) Hard disk      (b) Main memory      **(c) Cache memory**      (d) Blue-Ray disc
- How many memory locations are identified by a processor with 8 bits address bus at a time?  
(a) 28      (b) 1024      **(c) 256**      (d) 8000
- What is the capacity of 12cm diameter DVD with single sided and single layer?  
**(a) 4.7 GB**      (b) 5.5 GB      (c) 7.8GB      (d) 2.2 GB
- What is the smallest size of data represented in a CD?  
(a) blocks      (b) sectors      **(c) pits**      (d) tracks
- Display devices are connected to the computer through.  
(a) USB port      (b) Ps/2 port      (c) SCSI port      **(d) VGA connector**

### SECTION – B

#### Very Short Answers

- What are the parameters which influence the characteristics of a microprocessor?
- What is an instruction?
- What is a program counter?
- What is HDMI?
- Which source is used to erase the content of a EPROM?

### SECTION-C

#### Short Answers

- Differentiate Computer Organisation from Computer Architecture.
- Classify the microprocessor based on the size of the data.
- Write down the classifications of microprocessors based on the instruction set.
- Differentiate PROM and EPROM.
- Write down the interfaces and ports available in a computer.
- Differentiate CD and DVD
- How will you differentiate a flash memory and an EEPROM?

### SECTION – D

#### Explain in detail

- Explain the characteristics of a microprocessor.
- How the read and write operations are performed by a processor? Explain.
- Arrange the memory devices in ascending order based on the access time.
- Explain the types of ROM.

#### 4. Theoretical concepts of Operating System

##### SECTION – A

Choose the correct answer

- Operating system is a  
A) Application Software      B) Hardware      **C) System Software**      D) Component
- Identify the usage of Operating Systems  
A) Easy interaction between the human and computer      B) Controlling input & output Devices  
C) Managing use of main memory      **D) All the above**
- Which of the following is not a function of an Operating System?  
A) Process Management      B) Memory Management  
C) Security management      **D) Compiler**
- Environment Which of the following OS is a Commercially licensed Operating system?  
**A) Windows**      B) FEDORA      C) UBUNTU      D) REDHAT
- Which of the following Operating systems support Mobile Devices?  
A) Windows 7      B) Linux      C) BOSS      **D) iOS**
- File Management manages  
A) Files      B) Folders      C) Directory systems      **D) All the Above**
- Operating System Interactive provides  
**A) Graphics User Interface (GUI)**      B) Data Distribution  
C) Security Management      D) Real Time Processing
- An example for single task operating system is  
A) Linux      B) Windows      **C) MS-DOS**      D) Unix
- The File management system used by Linux is  
**A) ext2**      B) NTFS      C) FAT      D) NFTS

##### SECTION-B Very Short Answers

- List out any two uses of Operating System?
- What is multi-user Operating system?
- What is a GUI?
- What are the security management features available in Operating System ?
- What is multi-processing?
- What are the different Operating Systems used in computer?

##### SECTION-C Short Answers

- What are the advantages and disadvantages of Time-sharing features?
- List out the key features of Operating system
- Write a note on Multiprocessing

##### SECTION – D Explain in detail

- Explain the concept of a Distributed Operating System along with its advantages.
- List out the points to be noted while creating a user interface for an Operating system.
- Explain the process management algorithms in Operating System.

#### 5. Working with Windows Operating System

##### SECTION – A Choose the correct answer

- From the options given below, choose the operations managed by the operating system.  
a. Memory      b. Processes      c. Disks and I/O devices      **d. all of the above**
- Which is the default folder for many Windows Applications to save your file?  
**a. My Document**      b. My Pictures      c. Documents and Settings      d. My Computer
- Under which of the following OS, the option Shift + Delete will permanently deletes a file or folder?  
**a. Windows 7**      b. MS-DOS      c. Linux      d. Android OS
- 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 closing the running applications**
5. The shortcut key used to rename a file in windows
- a. **F2**                                      b. F4                                      c. F5                                      d. F6

#### SECTION-B Very Short Answers

1. What is known as Multitasking?
2. What are called standard icons?
3. Differentiate Files and Folders.
4. Differentiate Save and save As option.
5. How will you Rename a File?

#### SECTION-C Short Answers

1. What are the functions of Windows Operating system?
2. Write a note on Recycle bin.
3. Write a note on the elements of a window
4. Write the two ways to create a new folder
5. Differentiate copy and move

#### SECTION – D Explain in detail

1. Explain the versions of Windows Operating System.
2. Explain the different ways of finding a file or Folder
3. Write the procedure to create shortcut in Windows OS.

### 6. Word Processor

#### Part – I

Choose the correct answer

1. Which is the opening screen of OpenOffice?
 

a. Star desktop                      **b. Star center**                      c. Star screen                      d. Star window
2. Which option allows you to assign text, tables, graphics and other items to a key or key combination?
 

a. Autoformat                      b. Automatic                      **c. Auto text**                      d. Autographics
3. Which menu contains the Numbering option?
 

a. File                      b. Edit                      c. Tools                      **d. Format**
4. Which is displayed at the top part of the window?
 

a. Menu bar                      b. Tool bar                      **c. Title bar**                      d. Format bar
5. What is changing the default appearance of the text called?
 

**a. Text formatting**                      b. Page formatting  
c. Special formatting                      d. Paragraph formatting
6. Find & Replace option is available in which menu?
 

a. File                      **b. Edit**                      c. Format                      d. Tools
7. Which button selects all instances of the search text in the document?
 

a. Find                      **b. Find All**                      c. Replace                      d. Replace All
8. What is the shortcut key to go to the start of the document?
 

**a. Ctrl + Home**                      b. Ctrl + End                      c. Home                      d. End
9. What is the shortcut key for finding and replacing text in a document?
 

**a. Ctrl + F1**                      b. Ctrl + F4                      c. Ctrl + F5                      d. Ctrl+F7
10. What is the short cut key for Undo?
 

a. Ctrl +E                      b. Ctrl + U                      **c. Ctrl + Z**                      d. Ctrl + n

#### Part – II

### Very Short Answers

1. How do you insert pictures in to your document?
2. What is auto text in Writer?
3. How do you merge cells in a table?
4. State the differences between proprietary software and open source software.

### Part-III Short Answers

1. What is the difference between moving and copying text?
2. What are the different types of orientation?
3. How do you insert rows and columns?
4. What are the different ways to save a document?
5. Write the steps to change the line spacing of text.

### Part-IV Explain in Detail

1. What are the different methods to change margin in Writer?
2. What is Header and Footer? How do you insert page numbers in footer area?
3. Write the steps to Find and Replace a word with another word in OpenOffice Writer?
4. Explain Page formatting in Writer.

## 7. Office Automation Tools (Working with OpenOffice Calc)

### Part – I Choose the correct answer:

1. Which is the first electronic spreads sheet.  
(A) Excel (B) Lotus 1-2-3 (C) **Visicalc** (D) OpenOffice Calc
2. Which of the following applications was the parent to OpenOffice Calc?  
(A) Visicalc (B) LibreCalc (C) Lotus 123 (D) **StarOffice Calc**
3. Grid of cells with a programmable calculator:  
(A) **Spreadsheet** (B) Database (C) Word processor (D) Linux
4. A column heading in Calc is represented using  
(A) Number (B) Symbol (C) Date (D) **Alphabet**
5. Which key is used to move the cell pointer in the forward direction within the worksheet?  
(A) Enter (B) **Tab** (C) Shift + Tab (D) Delete
6. formula in calc may begin with  
(A) = (B) + (C) - (D) **All the above**
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 will be the result from the following expression (Assume H1=12, H2=12)? = H1<>H2  
(A) True (B) **False** (C) 24 (D) 1212
9. Which of the following symbol is used to make a cell address as an absolute reference?  
(A) + (B) % (C) & (D) **\$**
10. Which of the following key combinations is used to increase the width of the current column?  
(A) Alt + Right arrow (B) Alt + Left arrow  
(C) **Ctrl + Right arrow** (D) Shift + Left arrow

### Part - II Very Short Answers.

1. What are the types of toolbars available in OpenOffice calc?
2. Chapter 7.indd 165 What is a Cell pointer?
3. Write about the text operator in OpenOffice Calc.

- Write the general syntax of constructing a formula in Calc.
- What are the keyboard shortcuts to cut, copy and paste?
- Can you edit the contents of a cell?
- If yes, explain any one of the method of editing the cell content.
- What are the options available in "Insert Cells" dialog box?
- Match the following A (a) Cut, Copy and Paste
- B (1) Absolute Cell (b) Cell pointer (c) Selection Mode (2) Status bar (3) Standard Toolbar (d) \$A\$5 (4) Active cell Define the following (i) Text Operator (ii) Rows and Columns of spreadsheet
- Differentiate between Copy -Paste and Cut-Paste

#### Part-III Short Answers

- Write a short note on OpenOffice Calc.
- Write about inserting columns and rows in Calc.
- Differentiate Deleting data using Backspace and Delete
- Write any three formatting options. In cell A1=34 A2=65 A3=89
- write the formula to find the average.

#### Part-IV

##### Explain in Detail

- Explain about changing the column width in Calc.
- Write the steps to generate the following series. 5, 10, 20 ..... 2560 Read the following table A 1 2 3 4 5 6  
Year 2012 2013 2014 2015 B Chennai 1500 1600 C Madurai 1250 D Tiruchi E Coimbatore 1000 1000 1900  
1850 2016 1950 1320 1415 1240 950 750 820 920 500 350 300 200 250 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 (5) In 2016, how many "Air Coolers" are sold in Chennai  
compared to Coimbatore?

#### 8. Presentation Basics

##### Part – I Choose the correct answer

- Which is used to move quickly from one slide to another?  
A) Compass **B) Navigator** C) Fill color D)Page border
- Which is the shortcut key to view the slideshow?  
A) F6 B) F9 **C) F5** D) F10
- In Impress, which views shows thumbnail versions of all your slides arranged in horizontal rows.  
A) Notes B) Outline C) Handout **D) Slide Sorter**
- Identify the default view in Impress.  
**A) Normal** B) Slide Sorter C) Handout D) Notes
- Which menu contains the Slide Transition option?  
**A) Slide Show** B) View C) Tools D) format
- Identify the extension of the Impress presentation.  
**A) .odp** B) .ppt C) .odb D) .ood
- In presentation tools, the entry effect as one slide replaces another slide in a slide show. Identify the  
option that suits after reading the statement.  
A) Animation **B) Slide Transition** C) Custom animation D) Rehearse Timing
- Vanya has made a presentation on "Global Warming". She wants to progress her slide show automatically  
while she speaks on the topic in the class. Which features of Impress would she use?

- D) Either (a) or (b)

## Part - II Very Short Answers

1. How many in-built slide layouts does Impress consist of?
2. What do you understand by a presentation?
3. Define a template in Impress.

4. What is the difference between a slide and a slide show?
5. What do you understand by the slide layout?

### Part-III Short Answers

1. How many types of views are provided by Impress to its users?
2. Who uses the presentation software and why?
3. Define the Slide Sorter view and its significance.
4. What is a Normal view? Explain.
5. How are transition effects helpful in creating an effective presentation in Impress?

Part -IV answer in detail.

1. Valarmathi has never worked in Impress before, help her to perform the following tasks:
  - a. She wants that except for the first slide, all the slides should have the same design. For this, what does she need to do?
  - b. To easily communicate with her audience, she wants to provide them with a hard copy of the slides of the presentation. What should she create for it?
  - c. She wants to insert some pictures and movie files in some slides. How can she do that?
  - d. Suggest her the view that would be the most suitable for showing the presentation to the audience.
  - e. To make her presentation more attractive, she wants to add some effects in it. How can she do it? Suggest.
2. Explain how a presentation can help a salesperson to promote his/her products.
3. Sivabalan created a presentation to be shown at his school's Annual Function. Just 5 minutes before the presentation, he noticed that he has misspelt the name of the school, which is appearing in all the 30 slides of the presentation. How can he rectify this mistake in all the slides in one-shot?
4. List some advantages of using templates.
- 5.

## 9. Introduction to Internet and Email

## Part – I

Choose the correct answer

- What is the expansion of WLAN?  
**A) Wireless Local Area Network**  
c) Wireless Local Area Netware  
b) Wired local Area Network  
d) Wireless Area Netbande
- Range of Campus Network is  
a) 10 KM  
**b) 5 KM**  
c) 25 KM  
d) 20 KM
- Each computer on net is called  
**a) host**  
b) server  
c) workstation  
d) node
- The internet is governed by  
a) ICANM  
**b) ICANN**  
c) ICMA  
d) ICNNA
- Expansion of W3C  
**a) World Wide Web Consortium**  
c) World Web Wide Consortium  
b) Wide World Web Consortium  
d) World Wide Web Consortum
- W3C was established in 1994 by  
**a) Tim Berners-Lee**  
b) Tim Burnard Lee  
c) Kim Berners  
d) Kim Bernard Lee
- Hotspot uses which type of network services?  
A) LAN  
b) PAN  
**c) WLAN**  
d) CAN



8. USB WiFi adapters are often called as  
a) Data Card                      b) Pen Drive                      **c) Dongles**                      d) Memory Card
9. Looking for information on the internet is called  
**a) Surfing**                      b) Searching                      c) Finding                      d) glancing
10. Safari web browser was developed by  
a) Google                      **b) Apple**                      c) Microsoft                      d) Linux Corpn
11. How many types of websites are available?  
a) 3                      **b) 2**                      c) 4                      d) 6

#### Part – II Very Short Answers

1. Name the two important protocols for internet?
2. What is a network?
3. What is the role of ICANN
4. What is a search engine?
5. What is a browser?
6. What are the components of url addressing ?
7. What is a website?
8. What is CC and BCC in an email?
9. What is a Static web Page?
10. What is a Dynamic web page?
11. What are the benefits of e-governance?
12. What is Phishing ?

#### Part-III Short Answers

1. What is TCP/IP ?
2. Write a note on Hotspot internet service.
3. Differentiate Data Card and Dongles.
4. Write a note on two access methods of connecting to internet
5. Differentiate browser and a search engine with suitable examples.
6. Differentiate Website and Webpage.
7. What is the difference between Static and dynamic web page.
8. What are Advantages of email.

#### Part-IV Explain in Detail

1. Explain any five types of internet services.
2. Explain any five internet applications with suitable examples.
3. Write a note on any five Internet browsers other than that given in the book.
4. Explain the do's and don't of safe surfing on internet.

### 10. HTML – Structural Tags

#### Part – I

Choose the correct answer

1. HTML is acronym for  
(a) Hyper Transfer Markup Language                      **(b) Hyper Text Markup Language**  
(c) Hyper Transfer Makeup Language                      (d) Hyper Text Makeup Language
2. The coded HTML keywords that indicate how web browser should format and display the content is called.....  
**(a) Tags**                      (b) Attributes                      (c) Headings                      (d) Body
3. Which of the following is a special word used inside a tag to specify additional information to the tag?  
(a) Tags                      **(b) Attributes**                      (c) Headings                      (d) Body

4. HTML tags should be specified within:  
 (a) [ ] (b) { } (c) ( ) (d) < >
5. An HTML document is bounded within a pair of ..... tags  
 (a) <body> ..... </body> (b) <title> ..... </title>  
 (c) <html> ..... </html> (d) <head> ..... </head>
6. Which of the following symbol is used to define a closing tag?  
 (a) < > (b) % (c) / (d) \
7. Which section of the browser window displays the main contents?  
 (a) Head (b) **Body** (c) Title (d) Heading
8. Which of the following tag is a structural tag?  
 (a) **<html>** (b) <h1> (c) <br> (d) <p>
9. In HTML, colours are represented as  
 (a) Binary values (b) Octal values  
 (c) Decimal values (d) **Hexadecimal values**
10. Which of the following symbol is used to prefix with hexadecimal value representing colour in HTML?  
 (a) % (b) **#** (c) @ (d) &
11. Which of the following attribute is used to change text colour within body tag?  
 (a) bgcolor (b) background (c) **text** (d) color
12. Within body section, which of the following attribute is used to set top margin?  
 (a) margin (b) top (c) **topmargin** (d) leftmargin
13. How many levels of heading tags are available in HTML?  
 (a) **6** (b) 4 (c) 8 (d) 3
14. The tag used to insert a line break:  
 (a) <h1> (b) **<br>** (c) <htm> (d) <br>
15. The tag used to define a paragraph in HTML:  
 (a) <para> (b) **<p>** (c) <q> (d) <p>

#### Very Short Answers Part – II

1. 1 Sandhiya is creating a webpage. She is entering HTML code on her computer. In between, she keeps pressing “Refersh” / “Reload” button on her browser. What is the purpose?
2. Explain with the help of an example the difference between container and empty elements of HTML
3. What is wrong in the following coding?
4. <html> <my web page> <title> Welcome to my web page </head> </title> How do you define comments in HTML?
5. How do you include an image as your web page background?

#### Part-III Short Answers

1. Explain the attributes available with <body> tag.
2. What are the attributes available in <html> tags?
3. How do you view the source file? How do you save a file as HTML file?

#### Explain in Detail 1. Part-IV

1. Write a HTML program to display your school name and address using various heading level tags
2. Chapter 10.indd 236 Write the basic structure of a HTML program.

## 11. HTML - Formatting text, Creating Tables, List and Links

### Part – I Choose the correct answer

1. Which of the following tags are called as physical style tags?  
 (A) <html>, <b>, <br> (B) <b>, <br>, <u> (C) <A>, <b>, <i> (D) **<b>, <i>, <u>**
2. Which feature is used to call attention to the reader?  
 (A) **Highlight** (B) Bold (C) Italics (D) Underline
3. The tags <sub> and <sup> are used for:  
 (A) Subject and Super (B) Subscript and Super

(C) Subject and Superscript

(D) Subscript and Superscript

4. A named set of certain style of character and number is:  
(A) Style (B) Character (C) **Front** (D) Mark Chapter
5. Pick odd one from the list  
(A) <tr> (B) <th> (C) **<dh>** (D) <td>
6. Match the following:  
(a) tfoot - (1) Order list  
(b) start - (2) Hyperlink  
(c) href - (3) Highlight  
(d) mark - (4) Table  
(a) (b) (c) (d)  
(A) 4 1 2 3  
(B) 1 4 3 2  
(C) 4 3 2 1  
(D) 1 2 4 3
7. Definition list has how many parts?  
(A) 5 (B) 4 (C) **3** (D) 2
8. A list block can be defined inside another list is:
9. (A) Inner List (B) **Nested List** (C) Outer List (D) Listing List
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. To create internal link, which of the following attribute should be used?  
(A) link (B) **name** (C) local (D) Inter

Part – II Very Short Answers

- Write a short note on (i) <strong> (ii) <em>
- What is the use of <mark> tag?
- Write the following equation as HTML notation:  $Pd = 2s - Q2$
- Write about any two attributes of font tag.
- What is thematic break?
- What is pixel?
- What are the types of list in HTML?
- How will you define numbered list?

Part-III Short Answers

- Write an HTML code to display the following text in exactly the same way as given below. I am studying Computer Application.
- Briefly explain the attributes of <hr> tag.
- What are the core tags used to create table in HTML?
- Write an HTML code to provide hyperlink to <https://www.w3schools.com>
- Difference between <UL> and <OL> tags.
- Write HTML code to produce the following table: A B C

Part-IV Explain in Detail

- Write an HTML code to show the following text: MODERN ATOMIC THEORY The findings of modern atomic theory are given as follows:
  - An atom is the smallest particle which takes part in chemical reaction.
  - An atom is considered to be a divisible particle.
- The atoms of the same element may not be similar in all respects. Eg: Isotopes ( $^{17}\text{Cl}35$ ,  $^{17}\text{Cl}37$ )
- The atoms of different elements may be similar in some respects. Eg. Isobars ( $^{18}\text{Ar}40$ ,  $^{20}\text{Ca}40$ )

4. Explain the attributes used with <table> tag in HTML.
5. Explain the types of list with suitable HTML code.
6. What is Link and explain the types of links.
7. Write HTML code to create the following table: A C D B E F

## 12. HTML – Adding multimedia elements and Forms

### Part – I Choose the correct answer

1. Which image format was standardized by W3C?  
(A) JPEG                      **(B) SVG**                      (C) GIF                      (D) PNG
2. The tag used to insert an image in HTML:  
(A) Image                      (B) Picture                      **(C) img**                      (D) Pic
3. In HTML, a piece of text or image can be moved horizontally or vertically by using:  
**(A) <marquee>**                      (B) <img>                      (C) <embed>                      (D) <text>
4. Inline sound can be inserted using which of the following tag?  
(A) <inline>                      (B) <backgroundsound> **(C) <bgsound>**                      (D) <sound>
5. Which value causes the audio play as long as the page is in view?  
(A) Stop                      (B) Never Stop                      (C) Continue                      **(D) Infinite**
6. 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
7. The tag used to create dropdown list box in HTML is:  
(A) <dropdown>                      **(B) <select>**                      (C) <listbox>                      (D) <input>
8. Match the following:  
(a) <textarea>                      - (1) inline  
(b) <input>                      - (2) Video  
(c) <bgsound>                      - (3) Multiline input  
(d) <embed>                      - (4) Password  
(a) (b) (c) (d)  
(A) 3 1 4 2  
**(B) 3 4 1 2**  
(C) 2 3 4 1  
(D) 2 1 3 4

### Part – II Very Short Answers

1. List out the popular image formats.
2. Write down the general format of marquee
3. What is inline sound or movie?
4. What is the purpose of <input> tag?
5. Which tag is used to specify the list of items in dropdown list box?
6. What are the major attributes available in <textarea> tag?

### Part-III Short Answers

1. Write a short note on familiar image format.
2. How will you scroll the text in HTML?
3. Explain the main attributes used with <form> tag.
4. Explain the values of <input> tag's type attribute.
5. Explain the attributes of <select> and <option> tags.

## CSS – Cascading Style Sheets

### Part – I

Choose the correct answer

- Expansion of CSS  
(A) Cascading Style Schools  
(C) Cascading Style Schemer  
**(B) Cascading Style Sheets**  
(D) Cascading Style Shares
- Which of the following is the page level style?  
(A) <Page> **(B) <Style>** (C) <Link> (D) <H>
- CSS is also called as:  
**(A) Sitewide Style Sheets** (B) Internal Style Sheets  
(C) Inline Style Sheets (D) Internal Inline Sheets
- The extension of CSS file is  
(A) .ssc **(B) .css** (C) .csc (D) .htm
- Chapter 13.indd 292 What is selector?  
(A) Property (B) Value **(C) HTML tag** (D) name
- The Declaration block of CSS is surrounded by  
(A) ( ) (B) [ ] **(C) {}** (D) <>
- The declaration should be terminated by  
(A) : **(B) ;** (C) . (D) ,
- What is the property to set text as bold?  
(A) Font-Style **(B) Font-Weight** (C) Font-Property (D) Font-Bold
- Which of the following indicates that the text included is a comment ?  
**(A) /\* \*/** (B) !\* \*! (C) <\* \*> 292 (D) \\* \*\
- Which of the following ways below is correct to write a CS?  
(A) p{color:red; text-align:center}; (B) p {color:red; text-align:center}  
**(C) p {color:red; text-align:center;}** (D) p (color:red;text-align:center;)

### Part – II Very Short Answers

- What is the use of <style> tag?
- What is CSS?
- Write the general format of linking CSS with HTML.
- What is Inline Style?
- Write down general format of CSS declaration.

### Short Answers Part-III

- What are the advantages of using CSS?
  - Write a short note on rule of CSS.
- 

Write a CSS file to define text color and alignment to <p> tag.

- Write a CSS file to define font type, style and size to <h1> tag.

### Part-IV Explain in Detail

- Write an HTML document to display the following paragraph as per the given description Using CSS:
  - Font Name : Cooper Black
  - Style : Bold Italics
  - 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.”
- List and explain the Font and text element properties and values used in CSS.

### 13. Introduction to JavaScript

#### Part-I

Choose the correct answer:

- Which provide a common scripting language to web developers to design, test and deploy Internet Application?  
A) C                                      B) C++                                      C) Java                                      **D) JavaScript**
- Expand CGI  
**A) Common Gateway Interface**                                      B) Complex Gateway Information  
C) Common Gateway Information                                      D) Complex Gateway Interface
- JavaScript programming language is used to develop the  
**A) Dynamic Web Page**                                      B) Window                                      C) Web Page                                      D) Home Page
- The Dynamic Web Page help to save server's  
A) Work                                      B) Route                                      **C) Traffic**                                      D) Pvath
- User entered data, is validated before sending it to server is called  
A) Server traffic                                      **B) Dynamic Web Page**                                      C) Server Route                                      D) Web server
- Java Scripts can be implemented using which statements?  
A) <head>                                      B) <Java>                                      **C) <script>**                                      D) <text>
- Expand  
A) Distance Hyper Text Markup language                                      **B) Dynamic Hyper Text Markup language**  
C) Distance High Text Markup language                                      D) Dynamic High Text Markup language
- How many attributes are specified for <script> tag in the scripting language?  
**A) 2**                                      B) 3                                      C) 4                                      D) 5
- Which attribute is used to indicate the scripting language and its value should be sent to "Text/JavaScript"  
A) Language                                      B) Text1                                      **C) Type**                                      D) Body
- The file reload into the browser use the shortcut key is  
A) F2                                      B) F3                                      C) F4                                      **D) F5**
- JavaScript ignores spaces that appear between  
A) Command                                      B) Scripts                                      **C) Tokens**                                      D) Text
- A Data value for variable that appears directly in a program by using a  
A) loop                                      **B) Literal**                                      C) Statement                                      D) Text
- Which is mostly used to give a warning message to users?  
**A) Alert Dialog Box**                                      B) Confirm box                                      C) Prompt box                                      D) Display box
- In the below snippet, value of x is var x = 250 + 2 – 200;  
A) 50                                      **B) 52**                                      C) 48                                      D) 42

#### Very Short Answers Part - II

- Write a syntax of <script> tag
- What is scope of variables and types of scope variable?
- Write a notes to type casting in JavaScript
- How many Literals in JavaScript and mention its types.
- What is conditional operator give suitable example.
- What are the comments in Java Script?
- Write note on types of Operator.
- Write the role of variable in JavaScript.
- What is the use of prompt dialog box?

#### Part-III Short Answers

- What are the advantages of programming language?
- Brief the basic data types in Java Scripts.

3. Write note on string Operator.
4. Write about <script> tag
5. What are the uses of Logical Operators?
6. Difference between the increment and Decrement operator.

Explain in Detail 1. Part –IV

1. Explain about the popup dialog boxes in JavaScript.
2. Explain about the Arithmetic operator with suitable example. Case study: D) 42 Develop a program for online registration form with some of the client side validation features

## 15. Control Structure in JavaScript

Part-I Choose the correct answers:

1. Which conditional statement is used to transfer control from current statement to another statement?  
(a) **Branching** (b) Sequencing (c) Looping (d) Inteating
2. \_\_\_\_\_ statement can be used as alternative to if-else statement  
(a) While (b) If (c) Else-if (d) **Switch**
3. Which statement in switch case is used to exit the statement once the appropriate choice is found?  
(a) Exit (b) Default (c) Case (d) **break**
4. Which of the following is not a looping statement?  
(a) **switch** (b) While (c) Do-While (d) Break
5. Which part of the loop statement determines the number of times, the loop will be iterated?  
(a) First (b) **Second** (c) Third (d) Last
6. Which of the following is not a branching statement?  
(a) Loop (b) If-else (c) Switch (d) **for**
7. What will be the output for the following snippet:  
for (var n=0; n<10; n+1)  
{  
if (n==3)  
{  
break;  
}  
document.write (n+"<br>"); }  
(a) **0 1 2** (b) 0 1 2 3 (c) 0 1 2 3 4 (d) 0, 1, 3
8. In which loop the condition is evaluated, before executing a statement?  
(a) **while** (b) Do while (c) Break (d) Continue
9. The \_\_\_\_\_ statement is especially useful when testing all the possible results of an expression.  
(a) While (b) Do while (c) **switch** (d) If
10. In the \_\_\_\_\_ loop, body of the loop is always executed at least once before the condition is evaluated  
(a) For (b) While (c) If (d) **do-while**
11. <script type = "text / javascript"> x = 6 + "3"; document write (x); </script> what will be the output?  
(a) 6 (b) 9 (c) 63 (d) **Error**

Very Short Answers Part - II

1. while What are the different types of control statement used in JavaScript?
2. What is meant by conditional statements in JavaScript?
3. List out the various branching statements in JavaScript?
4. Write the general syntax for switch statement
5. Differentiate the break and continue statement.

Part-III Short Answers

1. 1.Chapter 15.indd 329 What is if statement and write its types.

2. Write the syntax for else-if statement
3. What is called a loop and what are its types
4. Differentiate between while and do while statements
5. What message will be displayed, if the input for age is given as 20, 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 Explain in Detail

1. Chapter 15.indd 330 Explain for loop with example Explain switch case statement with example
2. Write the output for the following program  

```
<Html> <Head> <Title> for statement</title> <Head> <Body>
<script language= "java Script" 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>
```
3. Write a Java Script program using while statement to display 10 numbers.

### 16. JavaScript Functions

#### Part-I Choose the correct answer:

1. The parameters work as  
**A) Local variable**                      B)Global Variable                      C) File variable                      D)block variable
2. Predefined functions are also called as  
**A) Library functions**                      B)storage functions                      C) instructions                      D)Group
3. Larger programs are divided into smaller called  
**A) modules**                      B)block                      C) sets                      D) commands
4. Which of the following is used to enhance reusability and program clarity.  
**A) functions**                      B) modules                      C) sets                      D)instructions
5. Which of the following allow the programmer to modularize a program  
A) Library functions                      **B) user defined functions**  
C) Normal functions                      D) Ordinary functions

#### Part - II Very Short Answers

1. What is a function in JavaScript?
2. What is the use of function?
3. Write a note on Library functions.
4. Write a note on user defined functions.
5. Write the syntax of functions.

#### Part - III Short Answers

1. Write a program in JavaScript to find the cube of a number using function
2. Write a program in JavaScript to find the sum of 10 numbers using function. Case study Display a menu as web page, Accept the choice as input and display the result using function. The menu to be displayed is 1. Sum of numbers up to a given limit 2. Sum of numbers from a starting limit to ending limit.

### 17. Computer Ethics and Cyber Security

#### PART – I

#### Choose the best Answer.

1. Which of the following is a set of moral principles that regulate the use of computers ?  
(a) piracy                      (b) programs                      (c) virus                      **(d) computer ethics**
2. Commercial programs made available to the public illegally are known as  
(a) freeware                      **(b) warez**                      (c) free software                      (d) software
3. Which one of the following are self repeating and do not require a computer program to attach themselves?  
**(A)**                      **(b) worms**                      (c) spyware                      (d) Trojans



4. Which one of the following tracks a user visits a website?  
(A) spyware                      **(b) cookies**                      (c) worms                      (d) Trojans
5. Which of the following is not a malicious program on computer systems?  
(A) worms                      **(b) Trojans**                      (c) spyware                      (d) cookies
6. A computer network security that monitors and controls incoming and outgoing traffic is  
(a) Cookies                      (b) Virus                      **(c) Firewall**                      (d) worms
7. The process of converting cipher text to plain text is called  
(a) Encryption                      **(b) Decryption**                      (c) key                      (d) proxy server
8. E-commerce means  
**(a) electronic commerce**                      (b) electronic data exchange  
(c) electric data exchange                      (d) electronic commercialization.
9. Distributing unwanted e-mail to others is called (d)  
(A) scam                      **(b) spam**                      (c) fraud                      (d) spoofing
10. Legal recognition for transactions are carried out by  
**(a) Electronic Data Interchange**                      (b) Electronic Data Exchange  
(c) Electronic Data Transfer                      (d) Electrical Data Interchange

#### Part – II

##### Very Short Answers

1. What is Harvesting ?
2. What are Warezs?
3. Write a short note on cracking.
4. Write two types of cyber attacks.
5. What is a Cookie?

#### Part-III

##### Short Answers

1. What is the role of firewalls?
2. Write about encryption and decryption.
3. What are the guidelines to be followed by any computer user?
4. What are ethical issues? Name some.

#### Part –IV

##### Explain in Detail

1. What are the various crimes happening using computer?
2. What is piracy? Mention the types of piracy? How can it be prevented?
3. Write the different types of cyber attacks.

## 18. Tamil Computing

##### Very Short Answers

1. List the search engines supported by Tamil language.
2. What are the keyboard layouts used in Android?
3. Write a short note about Tamil Programming Language.
4. What is TSCII?
5. Write a short note on Tamil Virtual Academy.