



Number System

DATE :

1. Write 'T' for True and 'F' for False against each statement.

- (a) Base of the number system is also known as radix.
- (b) The hexadecimal number system makes use of base 16.
- (c) Binary number system is based on two numbers i.e. 0 and 10.
- (d) Addition, subtraction, multiplication and division can be performed on binary numerals.

2. Convert the following numbers into their equivalent decimal numbers :

- (a) $(10101)_2$ _____
- (b) $(12570)_8$ _____
- (c) $(19FDE)_{16}$ _____

3. Answer the following questions.

(a) What do you understand by base of a number system ?

(b) What is binary number system ?

(c) What do you understand by octal number system ?

(d) What is hexadecimal number system?

Teacher's Signature :



Number System

DATE :

1. Tick (✓) the correct option :

(a) The binary number system contains two digits i.e.,

(i) 0 and 1

(ii) 0 and 2

(iii) 0 and 3

(iv) 1 and 2

(b) In hexadecimal number system, D represents

(i) 11

(ii) 12

(iii) 13

(iv) 14

(c) The decimal number system contains ten digits from

(i) 0 to 9

(ii) 1 to 10

(iii) 3 to 13

(iv) 2 to 11

2. Fill in the blanks.

(a) _____ number system uses the base 10.

(b) In binary addition, $1 + 1$ is equal to _____.

(c) A set of values used to represent different quantities is known as _____.

(d) _____ number system is called base 2 number system.

(e) In hexadecimal number system, E represents _____.

3. Match the Column.

Column A

(a) $(1010001)_2$

(b) $(1110011)_2$

(c) $(111111)_2$

(d) $(1111001)_2$

(e) $(1111011)_2$

(f) $(1000111)_2$

Column B

1. $(63)_{10}$

2. $(121)_{10}$

3. $(123)_{10}$

4. $(71)_{10}$

5. $(81)_{10}$

6. $(115)_{10}$

Teacher's Signature :

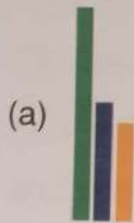


WORKSHEET 3A

Advanced Features of MS Excel

DATE :

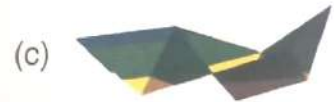
1. Identify and name the following charts.



(a)



(b)



(c)



(d)



(e)



(f)

2. Write 'T' for True and 'F' for False against each statement.

- (a) Bar chart is used when you need to show amount of change of values.
- (b) Chart title options are None, Centered Overlay Title and Above Chart.
- (c) Legend allows you to add titles along X-axis and Y-axis.
- (d) You can display the value of each column on the chart.

3. Tick (✓) the correct option :

- (a) The cell co-ordinates used in formulas, charts etc. are called
 - (i) cell
 - (ii) cell referencing
 - (iii) relative
 - (iv) invalid
- (b) Which of the following is the combination of both relative and absolute referencing ?
 - (i) Mixed referencing
 - (ii) Absolute referencing
 - (iii) Relative referencing
 - (iv) No referencing like this
- (c) Which of the following allows you to physically arrange the data ?
 - (i) Filtering
 - (ii) Advanced filtering
 - (iii) Auto filtering
 - (iv) Sorting

Teacher's Signature :



WORKSHEET 3B

Advanced Features of MS Excel

DATE :

1. Fill in the blanks.

- (a) _____ allows you to see one record at a time.
- (b) To search record through data form _____ option is used.
- (c) Each ring of the _____ chart represents a data series.
- (d) _____ display the title at the top of chart area and resize chart.

2. Match the Column.

Column A

- (a) Line chart
- (b) Doughnut chart
- (c) Radar chart
- (d) Pie chart
- (e) Scatter chart

Column B

- 1. Each item represented by one slice
- 2. Data at equal interval
- 3. Plots each data point with a marker
- 4. Relationship of parts to a whole
- 5. Data in concentric circles

3. Write the steps for filtering the data in Excel worksheet.

Handwritten area for writing steps for filtering data in Excel worksheet.

Teacher's Signature :



QBasic Programming

DATE :

1. Fill in the blanks.

- (a) _____ is used to increment / decrement the counter in For ... Next loop.
- (b) _____ is executed till the test condition is false.
- (c) _____ returns true if any one of the multiple checks evaluates true.
- (d) To check more than one condition, _____ is used.

2. Write 'T' for True and 'F' for False against each statement.

- (a) Next is used with DO WHILE ... Loop.
- (b) EXIT statement is used to come out from the Loop.
- (c) GOTO statement transfer the control of program to anywhere.
- (d) NOT operator returns false if check evaluates true.

3. Answer the following questions.

- (a) What do you mean by AND operator ?

- (b) What is the function of GOTO statement ?

- (c) What is looping ?

- (d) What is the function of NEXT in For ... Next loop ?

Teacher's Signature :



DATE :

QBasic Programming

1. Match the Column.

Column A

- (a) Logical boolean operator
- (b) EXIT
- (c) WHILE ... WEND
- (d) Nested loop
- (e) Repetition of statements

Column B

- 1. Loop within another loop
- 2. Similar to DO ... Loop
- 3. Come out of loop
- 4. Looping
- 5. AND operator

2. Tick (✓) the correct option :

(a) Which of the following is used to take decision in the program ?

(i) IF-THEN-ELSE

(ii) END IF

(iii) CLS

(iv) NOT operator

(b) Which of the following is used to transfer the control of the program to specific label or line number ?

(i) GOTO

(ii) TO

(iii) SEND

(iv) TRANSFER

3. Write a program to display a table of 5 less than 11 using DO-WHILE loop.

```
_____  
_____  
_____  
_____  
_____  
_____  
_____  
_____  
_____  
_____
```

Teacher's Signature :



QBasic Graphics and Sound

DATE :

1. Fill in the blanks.

- (a) _____ command draws the simple line without color.
- (b) _____ command is used to fill up the closed shape with color.
- (c) By default, _____ screen mode is selected.
- (d) _____ command produces different types of sound frequency at different time interval.

2. Draw the shapes executed by the following commands in the box provided.

(a) REM DRAWING A SLANT LINE

SCREEN 9

LINE (10, 10) – (100, 100), 2

(b) REM DRAW AN ISOSCELES TRIANGLE WITH HORIZONTAL BASE

SCREEN 7

LINE(160,30) – (250,180),4

LINE(250,180) – (70,180),2

LINE(70,180) – (160,30),1

(c) REM DRAWING A SQUARE BOX

SCREEN 9

LINE (10, 10) – (100, 100), 2, B

(d) REM DRAW A BOX FILLED WITH COLOR

SCREEN 9

LINE (10, 10) – (100, 100), 2, BF

Teacher's Signature :



WORKSHEET 5B

DATE :

QBasic Graphics and Sound

1. Match the Column.

Column A

- (a) Screen 13
- (b) Colour code 10
- (c) Screen 11
- (d) Colour code 14
- (e) B
- (f) BF

Column B

- 1. Resolution 640 x 480
- 2. Yellow colour
- 3. Used to draw a box
- 4. Used to draw a filled box
- 5. Light green colour
- 6. Resolution 320 x 200

2. Write 'T' for True and 'F' for False against each statement.

- (a) Sound effects can be given by only BEEP command.
- (b) By default, text screen mode i.e. screen mode 0 is set.
- (c) PSET command is used to display pixels on screen.
- (d) Pixels are the smallest components that makes image on screen.

3. What do the following PAINT commands indicate ?

- (a) SCREEN 9
CIRCLE (90, 90), 50, 6
PAINT (90, 90), 6, 6

- (b) SCREEN 9
CIRCLE (90, 90), 50, 4
PAINT (90, 90), 2, 4

- (c) SCREEN 9
CIRCLE (90, 90), 30, 3
PAINT (90, 90), 2

Teacher's Signature :



Introduction to HTML

DATE :

1. Fill in the blanks.

- (a) Root element includes HTML tag that is also called _____ tag.
- (b) Tags are written within _____ brackets.
- (c) Container tag always have _____ and _____.
- (d) The examples of text editor are _____ and _____.

2. Write 'T' for True and 'F' for False against each statement.

- (a) The space between tags does not matter but no space between letters of tag.
- (b) The HTML document needs to start and close with <Head> and </Head>.
- (c) Root elements include all the tags that comes after head element.
- (d) WYSIWYG editor allows to use all the HTML tags to design a web page.

3. Tick (✓) the correct option :

- (a) Which of the following language is used to create and design web pages ?

(i) HTML	<input type="checkbox"/>	(ii) HMTL	<input type="checkbox"/>
(iii) VB	<input type="checkbox"/>	(iv) Access	<input type="checkbox"/>
- (b) The extension of HTML files is

(i) .htmf	<input type="checkbox"/>	(ii) .html	<input type="checkbox"/>
(iii) .htm/.html	<input type="checkbox"/>	(iv) .txt	<input type="checkbox"/>
- (c) You can view the HTML document through

(i) web browser	<input type="checkbox"/>	(ii) editor	<input type="checkbox"/>
(iii) elements	<input type="checkbox"/>	(iv) tags	<input type="checkbox"/>
- (d) Which of the following includes all the start and end tags ?

(i) container tags	<input type="checkbox"/>	(ii) empty tags	<input type="checkbox"/>
(iii) tags	<input type="checkbox"/>	(iv) elements	<input type="checkbox"/>

Teacher's Signature :



WORKSHEET 6B

Introduction to HTML

DATE :

1. Match the Column.

Column A

- (a) Text editor
- (b) Container tag
- (c) Empty tag
- (d) WYSIWYG
- (e) Full form of HTML

Column B

- 1. <HTML>...</HTML>
- 2.
- 3. What You See Is What You Get
- 4. Hyper Text Markup Language
- 5. Notepad and WordPad

2. (a) Differentiate between container tag and empty tag.

Container tag	Empty tag

(b) Differentiate between Root element and Head element.

Root element	Head element

3. Write the advantages of using HTML to design web page.

Teacher's Signature :



Formatting in HTML

DATE :

1. Write 'T' for True and 'F' for False against each statement.

- (a) is used to change the size of text.
- (b) Size attribute of horizontal rule defines the thickness of line.
- (c) The value of attributes needs to put in single quote.
- (d) <strike>....</strike> can be used to delete text in HTML document.

2. Fill in the blanks.

- (a) _____ is non-executable tag in HTML document.
- (b) _____ and _____ are used to display scientific and mathematical equation.
- (c) _____ is used to draw a solid line.
- (d) _____ is used to change the text color.
- (e) _____ aligns the paragraph in center.

3. Give answer of each of the following in one word :

- (a) Which tag is used to define the background color of web page ?

- (b) Which tag is used to give space between text ?

- (c) Which tag displays the text slightly above the line ?

- (d) Which tag is used to create a horizontal line ?

Teacher's Signature :



DATE :

Formatting in HTML

1. Tick (✓) the correct option :

- (a) Notepad is used to write coding for
- | | | | |
|--------------------|--------------------------|--------------------|--------------------------|
| (i) HTML document | <input type="checkbox"/> | (ii) HTTP document | <input type="checkbox"/> |
| (iii) TCP document | <input type="checkbox"/> | (iv) FTP document | <input type="checkbox"/> |
- (b) HTML is a language used to design
- | | | | |
|---------------|--------------------------|--------------------|--------------------------|
| (i) web pages | <input type="checkbox"/> | (ii) plain text | <input type="checkbox"/> |
| (iii) text | <input type="checkbox"/> | (iv) none of these | <input type="checkbox"/> |
- (c) Which of the following tag is used to start a new paragraph ?
- | | | | |
|------------|--------------------------|-------------|--------------------------|
| (i) <p> | <input type="checkbox"/> | (ii) <para> | <input type="checkbox"/> |
| (iii)
 | <input type="checkbox"/> | (iv) <nobr> | <input type="checkbox"/> |
- (d) Which of the following tag is used to start a new line ?
- | | | | |
|--------------|--------------------------|------------|--------------------------|
| (i)
 | <input type="checkbox"/> | (ii) <rb> | <input type="checkbox"/> |
| (iii) <line> | <input type="checkbox"/> | (iv) </br> | <input type="checkbox"/> |

2. Match the Column.

Column A

- (a) <body bgcolor = " ">
- (b) noshade
- (c) <p>
- (d)

- (e) <strike>...</strike>
- (f) ^{...}

Column B

- 1. used to insert a new line
- 2. used to display text as superscript
- 3. used to strike a line in middle of text
- 4. defines a new paragraph
- 5. used to draw a solid line without shading
- 6. used to change the background colour

3. Write the syntax for the following in HTML :

- (a) Heading tag _____
- (b) Background colour _____
- (c) Blank spaces _____
- (d) Italic tag _____

Teacher's Signature :



DATE :

List in HTML

1. Write 'T' for True and 'F' for False against each statement.

- (a) The tag `<td>...</td>` creates a header in a table.
- (b) The width attribute specifies the width of the table.
- (c) Cell padding specifies the space between data and cell.
- (d) Table is the combination of rows and columns.

2. Tick (✓) the correct option :

- (a) Which of the following is used to turn off the word wrapping ?
 - (i) nowrap (ii) wrap
 - (iii) align (iv) valign
- (b) Which of the following specifies that the table has no border ?
 - (i) border = "0" (ii) border = "1"
 - (iii) border = "none" (iv) border = "2"
- (c) Which of the following specifies the space between the cells in pixels ?
 - (i) cellspacing (ii) cellpadding
 - (iii) border (iv) gap
- (d) Which of the following creates a cell in row of a table ?
 - (i) `<td>` (ii) `<tr>`
 - (iii) `<th>` (iv) `<table>`

3. Give answer of each of the following in one word :

- (a) It is used to display data in a tabular format.

- (b) It is the sublist within the main list.

- (c) The items are listed with description of each item.

Teacher's Signature :



DATE :

List in HTML

1. Fill in the blanks.

- (a) _____ is used to add the items in ordered list.
- (b) The text in header row of a table is by default _____ and _____.
- (c) _____ tag is used to turn off the word wrapping.
- (d) _____ is used to create empty cell in a table.

2. Match the Column.

Column A

- (a) <caption align = "top">
- (b) no border
- (c) bgcolor = "red"
- (d) valign
- (e) nowrap
- (f) list within list

Column B

- 1. nested list
- 2. off the word wrapping
- 3. vertical alignment
- 4. red background
- 5. border = "0"
- 6. aligns the caption above the table

3. Answer the following questions :

(a) What is block quote ?

(b) What is the use of <td> tag ?

(c) Define the attribute type in ordered list.

(d) What are the different tags used in definition list ?

Teacher's Signature :



WORKSHEET 9A

DATE :

HTML Frames

1. Match the Column.

Column A

- (a) <FRAMESET> tag
- (b) Nested frameset
- (c) Hyperlinks
- (d) Anchor tag
- (e) <IFRAME> tag
- (f) Universal Resource Locator

Column B

- 1. Refers to the address of a website
- 2. Used to place the floating frames
- 3. To create a hyperlink
- 4. Connect a webpage with other web page
- 5. Mixed frameset
- 6. Defines the rows and columns

2. Fill in the blanks.

- (a) _____ are used to link a web page with sound, image, video etc.
- (b) _____ is used to write code for floating frame.
- (c) _____ is used to reference a website or file that would open after clicking on link.
- (d) _____ is responsible to change the color of hyperlink from blue to any other.

3. Answer the following questions.

- (a) What are floating frames ?

- (b) What is hyperlink ?

- (c) What is the function of Anchor tag ?

- (d) What do you mean by noframe ?

Teacher's Signature :



Introduction to Java Programming

DATE :

1. Fill in the blanks.

- (a) _____ are the memory locations, used to store data in Java.
- (b) _____ is also called Integrated Development Environment.
- (c) _____ operators are used to decrease the values of variable by 1.
- (d) A single instance of a class is called an _____.

2. Tick (✓) the correct option :

- (a) Which of the following is not a data type in Java ?

(i) Int	<input type="checkbox"/>	(ii) Letter	<input type="checkbox"/>
(iii) Char	<input type="checkbox"/>	(iv) Long	<input type="checkbox"/>
- (b) Which of the following are used to store data values for the program ?

(i) Operators	<input type="checkbox"/>	(ii) Keywords	<input type="checkbox"/>
(iii) Variables	<input type="checkbox"/>	(iv) Comments	<input type="checkbox"/>
- (c) Which of the following is an example of logical operator ?

(i) AND	<input type="checkbox"/>	(ii) Addition	<input type="checkbox"/>
(iii) Less than	<input type="checkbox"/>	(iv) Equal to	<input type="checkbox"/>
- (d) Which of the following is not a Java token ?

(i) Statement	<input type="checkbox"/>	(ii) Constant	<input type="checkbox"/>
(iii) Operators	<input type="checkbox"/>	(iv) Variables	<input type="checkbox"/>

3. Answer the following questions.

(a) What is BlueJ ?

(b) What is the range of one byte ?

(c) What are tokens ?

Teacher's Signature :



WORKSHEET 11A

DATE :

JavaScript in HTML Documents

1. Write 'T' for True and 'F' for False against each statement.

- (a) By using simple objects and methods, you can write program in JavaScript.
- (b) All HTML tags are valid in JavaScript.
- (c) You can not break the script code into small parts.
- (d) ~ is called bitwise not operator.

2. Answer the following questions.

- (a) Define single line comments.

- (b) What is typeof operator ?

- (c) What are JavaScript variables ?

3. Tick (✓) the correct option :

- (a) Which of the following is a set of characters ?

- | | | | |
|--------------|--------------------------|----------------|--------------------------|
| (i) method | <input type="checkbox"/> | (ii) class | <input type="checkbox"/> |
| (iii) String | <input type="checkbox"/> | (iv) character | <input type="checkbox"/> |

- (b) Which of the following is a type of scripting language ?

- | | | | |
|----------------|--------------------------|-----------------|--------------------------|
| (i) JavaScript | <input type="checkbox"/> | (ii) Database | <input type="checkbox"/> |
| (iii) Internet | <input type="checkbox"/> | (iv) expression | <input type="checkbox"/> |

- (c) Which of the following is a unary operator ?

- | | | | |
|---------|--------------------------|-------------|--------------------------|
| (i) && | <input type="checkbox"/> | (ii) ^ | <input type="checkbox"/> |
| (iii) % | <input type="checkbox"/> | (iv) typeof | <input type="checkbox"/> |

- (d) Which of the following is conditional operator ?

- | | | | |
|---------|--------------------------|---------|--------------------------|
| (i) ? : | <input type="checkbox"/> | (ii) && | <input type="checkbox"/> |
| (iii) ! | <input type="checkbox"/> | (iv) % | <input type="checkbox"/> |

Teacher's Signature :



DATE :

JavaScript in HTML Documents

1. Fill in the blanks.

- (a) _____ is used to declare a variable in JavaScript.
- (b) _____ tag is added to the HTML document to add the scripting language.
- (c) Comments can be _____ to make the code more readable.
- (d) To display the text on the browser window, one can use _____ method.

2. Match the Column.

Column A

- (a) An extension of JavaScript
- (b) JavaScript
- (c) Arithmetic operator
- (d) Logical operator
- (e) Conditional operator

Column B

- 1. +, -, *, %
- 2. &&, ||, !
- 3. ? :
- 4. Case-sensitive language
- 5. .js

3. Write a program to display a welcome message using JavaScript.

Teacher's Signature :



WORKSHEET 12

DATE :

Viruses

1. Fill in the blanks.

- (a) If _____ is used then virus can spread from one computer to another computer.
- (b) _____ and _____ are the examples of worms.
- (c) If the computer does not operate properly that means it has _____ sector.
- (d) _____ and _____ are examples of boot virus.

2. Tick (✓) the correct option :

- (a) Which of the following is destructive program to infect the computer system ?

(i) Virus	<input type="checkbox"/>	(ii) Antivirus	<input type="checkbox"/>
(iii) Repair	<input type="checkbox"/>	(iv) Special program	<input type="checkbox"/>
- (b) Viruses can spread through

(i) external sources	<input type="checkbox"/>	(ii) CD only	<input type="checkbox"/>
(iii) floppy only	<input type="checkbox"/>	(iv) pen drive only	<input type="checkbox"/>
- (c) Which of the following infects the boot area of a computer system ?

(i) Macro	<input type="checkbox"/>	(ii) McAfee	<input type="checkbox"/>
(iii) Smart dog	<input type="checkbox"/>	(iv) Boot sector	<input type="checkbox"/>
- (d) Which of the following is designed to detect and remove virus from the computer system ?

(i) Antivirus software	<input type="checkbox"/>	(ii) Application software	<input type="checkbox"/>
(iii) Trojan horse	<input type="checkbox"/>	(iv) Worm	<input type="checkbox"/>

3. Write any five precautions that you should take to protect your computer from viruses.

Teacher's Signature :