

COMPUTER SCIENCE

Class V

Estimated Number of Periods:

60 (40 theory, 20 practical)

Unit	Topic	Periods		
		Theory	Practical	Total
UNIT 1 : 30 Marks	Introduction to Computers	3		3
	Input Devices	2		2
	Output Devices	3		3
	Memory	5		5
UNIT 2 : 30 Marks	Introduction to Windows	10	8	18
UNIT 3 : 40 Marks	Working with Paint	7	4	11
	Text Editing in MSWord:	10	8	18
Theory : 100 Marks		40	20	60

UNIT 1 : 30 Marks

Computer: Definition, Characteristics, Applications, Hardware and Software

Input Devices: Keyboard, Mouse

Output Devices: Monitor, Printer

Memory: Primary Memory, Secondary Memory, Measurement Unit of Memory (bits, bytes, kilobytes, megabytes, gigabytes)

UNIT 2 : 30 Marks

Introduction to Windows: Graphical User Interface; Desktop, Mouse – left click, right click, double click, drag; Parts of a Window – closing, minimizing, maximizing and resizing windows; Using the Scroll Bar; Wallpaper and Screensaver; Windows explorer; Viewing contents of file and folders; Create, Copy, Move and Delete File and Folder; Windows Accessories – Notepad, Paint and Calculator

UNIT 3 : 40 Marks

Working with Paint: The Tool Box; Edit Menu Commands; View Menu Commands; Image Menu Commands

Text Editing in MS Word (*Elementary knowledge*): Start, Create, Open, Save, Close a document; Editing a document, Insert text, Delete text; Undo and Redo command; Cut, Copy, Paste; Character Formatting; Aligning Text

Text Book: As Recommended By MBOSE

Reference Book:

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|---|-------------------------|
| 1. Computer Science: Information Technology for Class V | Oxford University Press |
| 2. Fundamentals of Information Technology – 5 | Evergreen Publications |

Note: The activities for practicals will be as mentioned in the text book.

COMPUTER SCIENCE

Class VI

Estimated Number of Periods: 80 (54 theory, 26 practical)

Unit	Topic	Periods		
		Theory	Practical	Total
UNIT 1 : 30 Marks	Computer Hardware	6		6
	MSWord Revisited	5	4	9
	Tables	4	4	8
UNIT 2 : 35 Marks	Working with WordArt	10	5	15
	Introduction to MS Excel	10	5	15
UNIT 3 : 35 Marks	Introduction to Internet	4		4
	Basics of QBASIC	15	8	23
Theory : 100 Marks		54	26	80

UNIT 1 : 30 Marks

Computer Hardware : Input Devices; Output Devices; Data Storage Media
MS Word Revisited : Paragraph Formatting, Page Formatting; Inserting Page Break, Printing of Documents
Tables : Creation; Editing Text in Table; Adding and Deleting Cells, Rows, and Columns

UNIT 2 : 35 Marks

Working with WordArt : Inserting WordArt; Autoshapes; Line Color, Line Style, Fill Color; Inserting Clipart
Introduction to MS Excel : Starting MS Excel; Components of MS Excel; Saving a WorkBook; Entering Data in a WorkSheet

UNIT 3 : 35 Marks

Introduction to Internet : Definition; WebSite; WebPage; Web Browser; Search Engines
Basics of BASIC : Format of BASIC statements; System Commands in QBASIC; Elements of BASIC; Statements – LET, PRINT, INPUT, REM; Control Statements – GOTO, IF, THEN, ELSE, ENDIF

Text Book: As Recommended By MBOSE

Reference Book:

1. Information Technology for Class VI

2. Fundamentals of Information Technology – 6

Oxford University Press

Evergreen Publications

Note: The activities for practicals will be as mentioned in the text book.

COMPUTER SCIENCE

Class VII

Estimated Number of Periods: 90 (64 theory, 26 practical)

Unit	Topic	Periods		
		Theory	Practical	Total
UNIT 1 : 30 Marks	Computer Peripherals	12		12
	Number System	6		6
	Review of MS Excel	4	4	8
UNIT 2 : 35 Marks	Editing Cell Contents	6	5	11
	Formatting Data	6	4	10
	Formulae in MS Excel	6	5	11
UNIT 3 : 35 Marks	Internet and Email	5		5
	Computer Viruses	4		4
	QBASIC Looping Statements	15	8	23
Theory : 100 Marks		64	26	90

UNIT 1 : 30 Marks

Computer Peripherals : Input Devices; Output Devices; Memory – Primary, Secondary and their characteristics; Secondary Storage – Hard Disk, Floppy Disk, Magnetic tapes, CD ROM and DVD ROM; Computer Languages – Machine language, Assembly Language and High Level Languages with examples; Software – System and Application Software

Number System : Base of a Number System; Need for the Binary Number System; Decimal and Binary Number System; Conversion from Decimal to Binary and Binary to Decimal Number System

Review of Microsoft Excel : Starting MS-Excel; Data Types; Saving a Workbook; Entering Data; Selecting Cell

UNIT 2 : 35 Marks

Editing Cell Contents : Overwriting; Partial Modification; Edit Commands; Inserting Rows / Columns; Deleting Rows / Columns; Inserting / Deleting Cells

Formatting Data in MS Excel : Formatting Numbers, Date and Time; Formatting Text; Font Formatting

Formulae in MS Excel : Cell and Range References; Numeric Formulae; Numeric Functions (SUM, AVERAGE, MAX, MIN)

UNIT 3 : 35 Marks

Internet : Uses of Internet; Web Addresses; Email and its features

Computer Viruses : Introduction; What a Computer Virus does and how it spreads; Types of Computer Viruses; Anti-Virus Software and need for its Update

QBASIC Looping Statements : WHILE – WEND Statements; FOR – NEXT Statements; Exiting from a loop; Rules of FOR – NEXT Statements; Nesting of Loops

Text Book: As Recommended By MBOSE

Reference Book:

1. Information Technology for Class VII

2. Fundamentals of Information Technology – 7
- Oxford University Press

Evergreen Publications

Note: The activities for practicals will be as mentioned in the text book.

