CHAPTER:- BEGINNING WITH PROGRAMMING
A:Define the following terms:
1. IPO Cycle 2. Program 3. Programming language 4. Machine language 5. Algorithm 6. Pseudocode
7. Write an algorithmto calculate the perimeter of a rectangle and area of a circle.

CHAPTER-PROGRAMMING WITH QBASIC
1.What do you understand by Qbasic?*

2.Define the main features of Qbasic.

3. Who organisation has develop Qbsaic?

4.Why do we use the-<i> CLS statement, <ii>PRINT Statement,<iii>REM Statement, <iv>INPUT Statement, <v>LET Statement, <vi>END Statement in QBasic?   Or

What is the purpose of the--<i> CLS statement, <ii>PRINT Statement,<iii>REM Statement, <iv>INPUT Statement, <v>LET Statement, <vi>END Statement in QBasic

(These Statements can come in separate manner also).

5.What are **comments** in QBasic?

6.What is the difference between-

<i> The LET and INPUT statements?

<ii> The PRINT and REM statements?

<iii>The CLS and END statements?

7.What is variable in QBasic? Define how many types of variables available in QBasic?

CHAPTER-PROGRAMMING USING FLOWCHARTS

1.What is a Flowchart?

2.How a Flowchart is made up of?

3. Define the Symbols of QBasic-

<i>Terminator Symbol, <ii> Input or Output Symbol, <iii>Flow Line Symbol, <iv> Process Symbol, <v>Display Symbol, <vi> On page Connector Symbol, <vii>Off Page Connector Symbol. (This Symbol can come in separate manner also).

4. What is the difference between –

<i>The INPUT Symbol and PROCESS Symbol.

<II>TERMINATOR Symbol and FLOW LINE Symbol.

<iii> On page Connector Symbol and Off Page Connector Symbol.

CHAPTER- CREATING PROGRAMS USING CONDITIONS

1.What is a Decision Symbol in Qbasic and what is its use?

2.what is a Condition?

3.How is IF statement used in flowchart?

4.Define ELSEIF Statement

5.What is the role of ENDIF Statement?

6. What is the use of IF Construct?

7. Define the Syntax of IF Statement and ELSEIF Statement.

CHAPTER-PROGRAMMING USING LOOPS

1.What is a Loop statement?

2.What is a Loop Counter?

3.How many types of loops are there in QBAsic?

4.What is the use of FOR –NEXT Loop?

5.Writethe syntax of For-Next Loop?

6.What is Jump statement In Qbasic?

7.What is Do While Loop?

8.Differentiate between for-nextloop and Do while loop?

9.What is the use of DO UNTIL LOOP?

CHAPTER-ARRAYS AND STRING

1.Why do we use array?   **Or**   Define Array.

2.Classify array on the basis of- how they Store Data.

Or

2a.What is Single or One Dimension Array?

2b.what is Two Dimensional Array?

3.Classify the Arrays on the basis of the type of data they store.

Or

3a.What is an Integer Array?

3b. what is a String Array?

4.How do we declare an Integer Array and a String Array.

5.Define Dim Statement and SIzeofarray.

6.What are Library Functions?

7.What is the difference between-

<I> The LEFT$ and RIGHT$ library functions.

<Iii> The RIGHT$ and MID$ library functions.

Or

Define LEFT$, RIGHT$ and MID$ library functions with example.

8.What are the library functions used for mathematical operations in QBasic?

Or

Define CINT() and SQR() Math function.

Or

What is the difference between CINT() and SQR() function.

Predict the output of QBASIC Code:-

```
i.  CLS
    LET A = 15
    LET B = 17
    IF A>B  THEN
        PRINT "value of A is more than B"
    ELSEIF B>A THEN
        PRINT "value of B is more than A"
    END
```

```
ii.  CLS
     A = 1
     DO WHILE A <= 10
        PRINT A
        A = A + 1
     LOOP
     END
```

iii. CLS
Fname$="Mahesh"
Lname$="Thakur"
PRINT Fname$+Lname$
END

iv. Predict the output of the given program if the user enters 49 as input.
CLS
INPUT "Enter a number "; num
LET SquareRoot = SQR(num)
PRINT "Square Root of the number is:" ; SquareRoot
END

v. Predict the output of the given program if the value of a name entered by the user is "Sujata".
CLS
DIM WholeName AS STRING
PRINT "Enter the Name"
INPUT WholeName
PRINT MID$(WholeName$, 2, 5)
END

vi. Predict the output of the given program if the value of a name entered by the user is "Ratnagiri".
CLS
DIM WholeName AS STRING
PRINT "Enter the Name"
INPUT WholeName
PRINT LEFT$(WholeName$,5)
END

vii. Predict the output of the given program if the value of a name entered by the user is "Prakash".
CLS
DIM WholeName AS STRING
PRINT "Enter the Name"
INPUT WholeName
PRINT RIGHT$(WholeName$,5)
END

viii. CLS
PRINT CINT(1.49)
PRINT CINT(1.50)
END

ix. CLS
DIM NAME(3) AS STRING

```
NAME$(1)="Vijaya"
NAME$(2)="Sneha"
NAME$(3)="Kavita"
PRINT "GOOD MORNING"; " : "; NAME$(2)
END
```

x. Predict the output of the given program if the user enters the two months as January and February.

```
DIM MONTH(2) AS STRING
FOR I = 1 TO 2
    PRINT "ENTER THE MONTH"
    INPUT MONTH(I)
NEXT
FOR I = 1 TO 2
    PRINT LEFT$(MONTH$(I), 3)
NEXT
END
```

Syllabus of Class VI Computer Science Midterm (2018-19)

1. Unit : 6 Introduction to networking.
2. Unit : 7 Beginning with Programming
3. Unit : 8 Programming using QBASIC
4. Unit : 9 Programming using Flowcharts.
5. Unit : 7 Creating Programs using conditions.
6. Unit : 8 Programming using Loops
7. Unit : 9 Arrays and Strings.

Sample Questions for Practical Exam:-

1. WAP to print first ten multiples of 3 using FOR NEXT loop.
2. WAP to print all the even numbers between 1 to 50.
3. WAP to accept and store name of five students of Class 6 using concept of array.
4. WAP to accept any two integers and swap the values without using third variable.