ASSIGNMENT

CLASS : XII   **SUBJECT : COMPUTER SCIENCE**

UNIT II

CHAPTER 5: PYTHON – VARIABLES AND OPERATORS

PART I

Multiple Choice Questions:

1. Who developed Python?

   a. Ritche   b. Guido Van Rossum

   c. Bill Gates   d. Sundar Pitchai

2. The Python Prompt that indicates the interpreter is ready to accept instruction is ....

   a. >>>   b. <<<

   c. #   d. <<

3. Which of the following shortcut is used to create new Python program?

   a. Ctrl+C   b. Ctrl+F

   c. Ctrl+B   d. Ctrl+N

4. Which of the following shortcut is used to save Python program?

   a. Ctrl+S   b. Ctrl+V

   c. Ctrl+C   d. Ctrl+N

5. Python files are saved with extension ....

   a. .py   b. .pr

   c. .pq   d. .ps

6. This symbol used to print more than one item on a single line is ....

   a. Semicolon(;)   b. Dollar($)

   c. Comma(,)   d. Colon(:)

7. Which of the following Character is used to give comments in Python program?

   a. #   b. &

   c. @   d. $

8. Which operator is also called as comparative operator?

   a. Arithmetic   b. Relational

   c. Logical   d. Assignment

9. Which Operator is also called as Conditional Operator?

   a. Ternary   b. Relational

   c. Logical   d. Assignment

10. Which function is used to display result on the screen?

   a. print( )   b.input ( )

   c. sum ( )   d. mult ( )

PART II
Very Short Answers:
1. What are the different modes that can be used to test Python program?
2. What is a literal? What are the types of literals?
3. Write short notes on Tokens?
4. What are the different operators that can be used in Python?
5. Write short notes on Exponent data?

PART III
Short Answers:
1. What are the assignment Operators that can be used in Python?
2. Write short note on Arithmetic operators with examples.
3. Write short notes on Escape Sequence with example?
4. Explain Ternary Operators with examples.
5. What are String Literals? Explain.

PART IV
Long Answers:
1. Discuss in detail about Tokens in Python?
2. Explain input() and print() functions with examples.

CHAPTER 6: CONTROL STRUCTURES

PART I

Multiple Choice Questions:

1. How many important control structures are there in python?

   a) 3

   b) 4

   c) 5

   d) 6

2. Which statement is the simplest of all decision making statements?

   a) if - else

   b) if..elseif

   c) simple if

   d) Nested if

3. Which punctuation should be used in the blank?

   ```
   if<condition>__
        statement-block 1
   else:
         statement-block 2
   ```
   a) ;

   b):

   c) ::

   d) !

4. elif can be considered to be an abbreviation of ………….

   a) elseif

   b) if

   c) simple if

   d) None

5. What plays a vital role in python programming?

   a) statements

   b) control

   c) structure

   d) indentation

6. How many types of loops are there in python?

   a) 2

   b) 3

   c) 4

   d) 5

7. Which is the entry check loop?

   a) for

   b) while

c) a & b   d) None

8. The condition in the if statement should be in the form of ....

    a) Arithmetic or Relational expression   b) Arithmetic or Logical expression

    c) Relational or Logical expression   d) Arithmetic

9. Which is the most comfortable loop?

    a) do-while   b) while

    c) for   d) if...elif

10. A loop placed within another loop is called as ....?

    a) for loop   b) while loop

    c) Nested loop   d) do-while loop

PART II

Very Short Answers:
1. Define Control Structures?
2. Write the syntax of if -else statement?
3. Write note on range() in loop?
4. Name the 3 jump statements in Python?
5. Write a note on break statement?

PART III

Short Answers:
1. Write a note on if -else structure.
2. Write the syntax of while loop.
3. What is the output of the following code?
   for i in range (2,10,2):
       print (i, end =' ')
4. Write the differences between branching and looping?
5. List the differences between break and continue statement.

PART IV

Long Answers:
1. Write a detail note on for loop.
2. Write a python program to display all 3 digit odd numbers.

CHAPTER 7: PYTHON FUNCTIONS

PART I

Multiple choice questions

1. A named blocks of code that are designed to do one specific job is called as ....
   a) Loop
   b) Branching
   a) Function
   d) Block

2. Which function is called as anonymous unnamed function ....?

   a) Lambda
   b) Recursion

   c) Function
   d) Define

3. A function which calls itself is called as ....
   a) Built-in
   b) Recursion
   c) Lambda
   d) Return

4. Which of the following keyword is used to begin the function block ?
   a) define
   b) for
   c) finally
   d) def

5. While defining a function which of the following symbol is used?

   a) ;
   b) .

   c) :
   d) $

6. Which of the following keyword is used to exit a function block?

   a) define
   b) return

   c) finally
   d) def

7. .... function returns an absolute value of a number?
   a) abs( )
   b) ord( )
   c) chr( )
   d) bin( )

8. Python .... should not be used as function name ?
   a) key words
   b) arguments
   c) variables
   d) scope

9. A variable with ....can be used anywhere in the program?
    a) local scope   b) global scope
    c) class scope   d) function scope

10. Any number of return statements are allowed in a function definition but
    .... of them is executed at run time?
    a) only one   b) two
    c) three   d) four

PART II

Very Short Answers:

1. What is function?
2. Write the different types of function?
3. What are the advantages of function?
4. Write short notes about sqrt( ) function with example?
5. Write about return statement.

PART III

Short Answers:

1. Write short notes about anonymous functions?
2. Write the rules of local variables?
3. Write the basic rules for global keyword in python?
4. Differentiate floor( ) and ceil( ) function?
5. How recursive function works?

PART IV

Long Answers:

1.Explain the following built in functions.

   id ( ), chr ( ), round ( ), type ( ), pow ( )

2.Explain recursive function with an example.

CHAPTER – 8: STRINGS AND STRINGS MANIPULATION

PART I

Choose the best Answer:

1. Which of the following operator is used for concatenation?

    a) +   b) &

    c) *   d) =

2. Defining strings with in triple quotes allows creating ....

    a) Single line strings   b) Multiple line strings

    c) Double line strings   d) Multiple strings

3. String in python are ....

    a) immutable   b) changeable

    c) countable   d) flexible

4. _____ is known as slicing operator

    a) ( )   b) {}

    c) [ ]   d) + =

5. Which of the following formatting character is used to print exponential notation in upper case?

    a) %e   b) %E

    c) %g   d) %n

6. The subscript of a string may be ....?

    a) positive   b) negative

    c) both (a) and (b)   d) either (a) or (b)

7. Which of the following is used as place holders or replacement fields which get replaced along with format () function?

    a) {}   b) <>

c) ++   d) ^^

8. ………….. starts with a backslash and can be interpreted differently

   a) Escape sequences   b) Capitalize

   c) End   d) Range

9. ………… returns the length of the string ?

   a) len ( )   b) title ( )

   c) upper( )   d) lower ( )

10. ………….. is used to add more string at the end of an existing string?

   a) Concatenation   b) Repeating

   c) Append   d) String slicing

PART II
Very Short Answers:

1.   Define string.
2.   Is it possible to modify a string in python?
3.   How will you delete a string in python?
4.   What is slicing?
5.   What will be the output of the following python code?
     str1 ="School"
     print(str1*3)

PART III
Short Answers:
1.   Write short note on
     (a) capitilize()   (b) swapcase()
2.   Write short notes on format ( ) function with example
3.   Write short notes on count() function in python.
4.   Explain any six Escape sequences supported by python.
5.   What is Concatenation? Give an example

PART IV
Long Answers:
1.   Explain the string operators in python with suitable example.
2.   Write a program to check whether the give string is a palindrome or not