15.07.19   Computer Science   Marks: 100

STD:XII (C-E)   Special Test   Time:2½hrs

I. Choose the correct answer: 25x1=25

1. The small sections of code that are used to perform a particular task is called __.

    a. subroutines   b. files c. pseudo code   d. modules

2. Which of the following is a distinct syntactic block?

    a. sub routines   b. function   c. definition d. modules

3. The values which are passed to a function definition are called _.

    a. arguments   b. subroutines c. function   d. definition

4. Which of the following defines what an object can do?

    a. operating system b. complier   c. interface d. Interpreter

5. The Function which will give exact result when same arguments are passed are called.......

    a. Impure Function b. Partial function c. Dynamic Functions

    d. Pure Functions

6. .... Functions the retrieve information from the data type?

    a. Constructors   b. Selectors c. recursive   d. nested

7. A sequence of immutable object is called .... data type

    a. Built_in b. derived c. concrete d. abstract

8. The data type whose representation is unknown are called ....

9. Bundling two values together into one can be considered as ....

    a. Pair b. Triplet c. Single d. quadrant

10. .... is constructed by playing expressions within square brackets ?

    a. Tuples b. lists c. classes d. quadrant

11. Who develope python ?

    a. Richie b. John Thomson c. Gido van rossum d. none

12. The python prompt indicates that interpreter is ready to accept instructions _____.

    a. >>>   b. <<<   c. #   d. <<

13. _____ character is used to give comments in python program?

    a. #   b. &   c. @   d. $

14. the symbol is used to print more than one item ____ on a single line.

    a. ;   b. $ c. ,   d. :

15. Which operator is called as comparative operator?

    a. Arithmetic b. Logical   c. relational d. assignment

16. Which amongst this is not a jump statement?

    a. for   b. goto   c. continue d. break

17. There are _____ types of control structure?

    a. 2   b. 3   c. 4   d. 1

18. elif can be considered to be abbreviation of _____.

    a. nested if b. if .. else   c. else..if   d. if..elif

19. What plays a vital role in pythom programming?

    a. statements   b. control   c. structure d. indentation

20. Which statement is generally used as a place holder?

    a. continue b. break   c. pass   d. goto

21. A function which calls itself is called as _____.

    a. built-in   b. recursion   c. lambda   d. return

22. _____ keyword is used to begin the function block?

    a. define   b. for   c. finally   d. def

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

    a. +   b. &   c. #   d. =

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

    a. ;   b. .   c. :   d. $

25. _____ keyword is used to define the function test python?

     a. define   b. pass   c. def   d. while

II. Answer the following (any 10), Q.No:34 is compulsory: 10x2=20

26. Define pure and impure function?

27. Write the characteristics of interface?

28. Write the algorithmic representation of rational numbers.

29. Define concrete and abstract data type.

30. What are the key features of python?

31. What are comments in python?

32. Write a program in python to print all number from 10 to 15 using while loop.

33. write a note a range ( ) function.

34. What is meant by required arguments?

35. What is the use of lambda function?

36. Write a note on format ( ) function?

III. Answer the following: [Any 10] Q.no:40 is compulsory: 10x3=30

37. How recursive function works?

38. Write the rules of local variable?

39. What are the advantages of user defined functions?

40. Draw the flowchart or working of continue statement?

41. Write the syntax for the following:

    (i) While loop (ii) For loop   (iii) If.else statement

42. What are the assignment operators that can be used in python?

43. What is literals? Explain the types of literals?

44. Define wishful thinking.

45. Define constructors and destructors.

46. What is the side effect of impure function? Give example.

47. Write an example of parameter with and without type.

IV. Answer in detail: 5x5=25

48. How will you access the multi item? Explain with eg. OR
How will you facilitate data abstraction. Explain with example.

49. Explain the operators in Python? Give an examples. OR
Explain Input and output function? Give an example.

50. Write a program to check if the accepted number is odd or even
using if else statement and conditional operator.   OR
Explain with example working of break statement.

51. Define function. explain their types with eg?   OR
Write a note on keyword arguments and explain with example.

52. Write the syntax of return statement explain their function. OR
Write note on the following:

     (i) ord ( )   (ii) chr ( )   (iii) bin ( )   (iv) abs ( )