Reg. No :...............................

Name :.................................

B. Voc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
2020 ADMISSIONS REGULAR AND 2019, 2018 ADMISSIONS SUPPLEMENTARY
SEMESTER V - SKILL COURSE (SOFTWARE DEVELOPMENT)
VSD5S07B18 - PYTHON PROGRAMMING

Time : 3 Hours   **Maximum Marks : 80**

Part A

I. Answer any Ten questions. Each question carries 2 marks   **(10x2=20)**

1.   a) Define Python variable. b) How do we declare a variable in Python?

2.   Define set datatype in Python.

3.   Define Boolean datatype.

4.   Explain the syntax of multiple line of comments in Python?

5.   Describe pass statement in Python.

6.   Define operator precedence in Python.

7.   Describe default parameter in function definition with example.

8.   Illustrate the use of 'in' operator in a string.

9.   Name the method used to find the length of a list. Write down the syntax.

10. squares = {1: 1, 3: 9, 5: 25, 7: 49, 9: 81}.Write a program to iterate through keys and print the values.

11. Write down the method used to close a file in Python. State advantages of closing a Python file.

12. Define Python Modules.

Part B

II. Answer any Six questions. Each question carries 5 marks   **(6x5=30)**

13. Why python called as an "All Rounder"?

14. Differentiate between dynamically typed programming language and statically typed programming language with example.

15. Explain about single line and multiline comments in Python.

16. Explain about operator precedence in Python.

17. Write a Python program to find the factorial of a number using recursion.

18. Write short notes on local and global variables. Explain with suitable examples.

19. Explain split() and join() functions in List with example.

20. Is Tuple comprehension supported by python? Justify your answer with example. What will be the output of the following code? t= (x**2 for x in range(1,6)) print(type(t)) for x in t: print(x)

21. 109. Write a short note on Python Module.Write the different possibilities of implementing a module in Python.Explain the output of the given python program. Test.py X=67 def add(a,b): print("The sum:",a+b) def Product(a,b): print("Product:",a*b) from Test import add,X print(X) add(40,60) Product(10,2)

Part C

III. Answer any Two questions. Each question carries 15 marks   **(2x15=30)**

22. What are the standard data types that are used in Python? Explain

23. Explain various inbuilt functions for type casting in python with example.

24. Describe an Array. Explain any five methods in Array with suitable example. Write a program to find the sum of array elements.

25. .Explain a) The term "mapping"in List b) Aliasing and cloning of List objects with example. c)Any four methods to delete the elements from a List.