FIRST SEMESTER B.Voc. DEGREE EXAMINATION, NOVEMBER 2022

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC21U SDC1 PP02 - PYTHON PROGRAMMING

(Information Technology)

(2021 Admission onwards)

Time : 2.5 Hours   Maximum : 80 Marks

Credit : 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. List the components of computer hardware.

2. Explain the generation of programming languages.

3. Define recursion.

4. Define keywords.

5. Explain membership operators.

6. Define Local variables.

7. Define a function. How a function is called in Python.

8. Define swapcase function in Python.

9. List the differences between Formal and Actual arguments.

10. Explain string in Python.

11. List the differences between Set and Dictionary.

12. Define Polymorphism.

13. Explain what makes Python object-oriented?

14. Explain Exceptional handling in Python.

15. List some of the built-in modules in python.

(Ceiling: 25 Marks)

Part B (Paragraph questions)

Answer *all* questions. Each question carries 5 marks.

16. Describe the four generation computer based on the (a) Hardware (b) Software (c) Computing characteristics (d) Physical appearance and (e) Their applications.

17. Explain the differences between the following: Minicomputer and Mainframe Computer.

18. Explain the syntax and draw the flowchart for else.

19. Explain in detail about built-in data types.

20. Explain the for loop with example.

21. Create a python program to Swap two tuples in Python.

22. Define Lists in Python. What are the different operations performed on lists?

23. Describe math module in python.

(Ceiling: 35 Marks)

Part C (Essay questions)

Answer any *two* questions. Each question carries 10 marks.

24. Define memory. What are the main classifications of memory?

25. Explain any four input and output devices in detail.

26. Explain what is a string? Explain different string operations in python with example.

27. Create the algorithm, python programs and draw the flowchart to find the sum of n natural numbers.

(2 × 10 = 20 Marks)

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