Reg. No. : ....

Name : ....

V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/ Improvement) Examination, November 2023
(2019 – 2021 Admissions)
Core Course in Computer Science
5B10CSC : COMPUTATION USING PYTHON

Time : 3 Hours

Max. Marks : 40

PART – A
(Short Answer)

Answer **all** questions.

(6×1=6)

1. What is the purpose of the "if statement" in Python ?

2. How do you define a class in Python ?

3. How do you import a module in Python ?

4. How do you add a checkbox to a Tkinter window ?

5. How do you commit a transaction in Python ?

6. How do you check if a file is closed in Python ?

PART – B
(Short Essay)

Answer **any 6** questions.

(6×2=12)

7. i) How many lines of output will be there in the following statement ?
   print ('Good Morning How are you ?')
   ii) Justify your answer.

8. Write a program that prompts users to enter two integers x and y. In addition, the program should compute and display x^y.

9. What is a class ? How do you define it ?

P.T.O.

10. Explain the concept of list slicing in Python.

11. What is the difference between a list and an array in Python ?

12. How do you add widgets to a Tkinter frame ?

13. Write a program that uses functions to find the maximum and minimum values in a list.

14. "Two strings can be added and multiplied". With the use of an example, explain this statement.

PART – C
(Essay)

Answer **any 4** questions. (4×3=12)

15. What are the different ways to run a python program ?

16. How do you add an entry field to a Tkinter window ?

17. What you understand about the rule of associativity ? Explain with example.

18. Compare keyword arguments and required arguments in Python functions.

19. How will you rename a file in python with an example ?

20. Differentiate between class and object in Python.

PART – D
(Long Essay)

Answer **any two** questions. (2×5=10)

21. Explain in detail about Shape Manipulation in arrays.

22. Elaborate on the role of the following three statements in a control loop with suitable example :
    i) break
    ii) continue
    iii) pass.

23. With an example, describe the function and types of arguments in Python.

24. Explain the concept of GUI programming using Tkinter.

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