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

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

# Fifth Semester B.Sc. Degree Examination, December 2023

## Career Related First Degree Programme under CBCSS

### Group 2(b) – Computer Science

### Core Course

### CS 1541 : PYTHON PROGRAMMING

### (2021 Admission)

Time : 3 Hours                                         Max. Marks : 80

SECTION A – [Very Short Answer Type]

[**One** word to maximum of **one** sentence. Answer **all** questions]

1. The function for receiving input from the user is —————————.

2. What will be the output of this code? print(‴examination"[5:])

3. The operator used for repetition is —————————.

4. ————————— are known as read-only lists.

5. ————————— function reads the entire content of a text file and returns as a list.

6. Python regex offers ————————— method to search and replace patterns in a string.

7. ————————— is the built-in Exception used for all errors in the database.

8. The built-in function ————————— takes an iterable object and returns an iterator.

9. ————— variables are a series of hidden values that the web server sends to every CGI program we run.

10. The ————— method sends information using QUERY_STRING header and will be accessible in our CGI program through QUERY_STRING environment variable.

**(10 × 1 = 10 Marks)**

SECTION B – [Short Answer]

[Not to exceed **one** paragraph. Answer **any eight** questions. Each question carries **2** marks]

11. List out various operators in Python.

12. What is a set? Mention its' features.

13. What are the properties of dictionary keys?

14. Differentiate between Mutable and immutable objects.

15. How will you update a dictionary?

16. What is a module? Give example.

17. How will you delete a file in Python?

18. Mention any 4 built-in exceptions.

19. What do you mean by regular expression?

20. What are the advantages of iterators?

21. Write a Python program to accept a filename and print the extension of the file.

22. Write a Python code to generate radio button in CGI.

**(8 × 2 = 16 Marks)**

## SECTION C – [Short Essay]

[Not to exceed **120** words, answer **any six** questions. Each question carries **4** marks]

23. Mention the features of Python.

24. Explain the concept of list in Python.

25. Explain the string methods join() and split() with example program.

26. Explain anonymous functions with example.

27. Explain the concept of packages in Python.

28. Write a program to append a file with the contents of another file.

29. Explain constructors and destructors with an example program.

30. Explain tkMessageBox with an example program.

31. Explain Text widget with an example program.

**(6 × 4 = 24 Marks)**

## SECTION D – [Long Essay]

[Answer **any two** questions. Each question carries **15** marks]

32. Elaborate on various decision making statements in Python with syntax and example.

33. Explain different types of function arguments with example programs.

34. Discuss on exception handling mechanism in Python.

35. Explain with an example code, how to connect Python with MySQL and create a table.

**(2 × 15 = 30 Marks)**

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