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**SF—18—2022**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (C.S.) (Third Year) (Fifth Semester) EXAMINATION**

**JUNE/JULY, 2022**

**(CBCS/Revised Pattern)**

**COMPUTER SCIENCE**

**Paper BCS-502**

**(Python)**

**(Friday, 1-7-2022)**

**Time : 9.30 a.m. to 1.15 p.m.**

*Time—3.45 Hours*

*Maximum Marks—75*

*N.B. :— (i) All questions are compulsory.*

*(ii) Assume suitable data, if necessary.*

1. Attempt the following (any *five*) : 15

- (a) Explain Python Interpreter.
- (b) Explain correcting error in python with example.
- (c) What is string ? Explain modifying string operator.
- (d) Discuss data structure in dictionary with example.
- (e) Explain Object Oriented Programming in python.
- (f) Explain concept for web using flask.
- (g) Explain pickling data in python.

2. Attempt any *three* of the following : 15

- (a) What is Python ? Discuss history and version of python.
- (b) Explain how do you define class and object with example.
- (c) Write a program in python to check the number is Positive, Negative or Zero.
- (d) How to instal python on windows ? Write step by step.
- (e) Explain features of python.

P.T.O.

3. Attempt any *three* of the following : 15
- (a) Write a program in python to demonstrate the concept of class and objects.
  - (b) Explain Assignment statement in detail.
  - (c) Discuss casting data types with example.
  - (d) What is loop ? Explain types of loop.
  - (e) What is variable ? Explain with example.
4. Attempt any *three* of the following : 15
- (a) How to access file in python ?
  - (b) Define functions. Explain function argument.
  - (c) How to read data from CSV file ? Write in detail.
  - (d) What is Modules ? Explain in detail.
  - (e) Explain mathematical function and constant in python.
5. Attempt any *three* of the following : 15
- (a) Explain data structures in array and list python.
  - (b) Explain polymorphism in detail.
  - (c) What is inheritance ? Explain types of inheritance.
  - (d) Explain connectivity with database in detail.
  - (e) Explain design and implement database application using python.