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## NEPNY—26—2023

### FACULTY OF SCIENCE AND TECHNOLOGY

#### M.Sc. (NEP) (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

#### COMPUTER SCIENCE

Paper SCMPSC-402

(Python Programming)

**(Friday, 22-12-2023)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—Three Hours*

*Maximum Marks—80*

- N.B. :-*
- (i) Question paper will consist of 6 questions, each of 20 marks.
  - (ii) Question No. 1 will be compulsory.
  - (iii) Solve any *three* of remaining five questions from Q. No. 2 to Q. No. 6.
  - (iv) Draw well labelled diagram wherever necessary.

1. Answer all the following questions (5 marks each) : 20

- (a) Explain Database Connection in MySQL.
- (b) Explain packages in detail.
- (c) Describe TKinter module in detail.
- (d) Explain features of python.

P.T.O.

2. Attempt the following questions (10 marks each) : 20
- (a) What is inheritance ? Explain any *three* inheritance.
  - (b) Explain Looping Statement in python.
3. Attempt the following questions (10 marks each) : 20
- (a) Discuss creating text and button in python.
  - (b) Explain Set and Tuple in python.
4. Attempt the following questions (10 marks each) : 20
- (a) Explain Passing Query to MySQL.
  - (b) Explain polymorphism in detail.
5. Attempt the following questions (10 marks each) : 20
- (a) What is string ? Discuss any *four* string operations in python with suitable example.
  - (b) Explain List in detail.
6. Attempt the following questions (10 marks each) : 20
- (a) What is Exception ? Discuss Exception handling in python.
  - (b) Python Program to Count the Number of Digits in a Number.