

2211090101030002
EXAMINATION MARCH-APRIL 2024
POST GRADUATE DIPLOMA IN COMPUTER
APPLICATION (FIRST SEMESTER)
FUNDAMENTALS OF PYTHON – LEVEL 3

[Time: As Per Schedule]

[Max. Marks:70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **POST GRADUATE DIPLOMA IN
COMPUTER APPLICATION (FIRST SEMESTER)**
 - b. Name of the Subject : **FUNDAMENTALS OF PYTHON –
LEVEL 3**
 - c. Subject Code No : **2211090101030002**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

Q.1 Answer the following.

- A. How to create a list? Explain the slicing/indexing of a list giving a suitable example. **7**
- B. Explain identity and membership operators giving suitable examples **5**

OR

- B. Explain the following string functions giving a suitable example.
 1. index
 2. format
- C. Explain a function to accept input from the user. **2**

Q.2 Answer the following.

- A. How a user-defined function can be created in Python? Explain variable length arguments giving suitable examples. **7**
- B. Explain the use of break and continue statements giving example. **5**

OR

- B. Write a program to print the Fibonacci series up to N terms.
- C. Write a short-hand if condition to find maximum to three numbers. 2

Q.3 Answer the following.

- A. How to create date object in Python? Explain strftime () giving suitable example. 7
- B. Explain creating time object in Python. 5

OR

- C. Explain creating, renaming, and importing module in Python.
- C. Write a format specifier to display the time in the following format. 2
15:05:23 PM

Q.4 Answer the following.

- A. Write a note on the exception-handing mechanism in detail. 7
- B. Write a Python program to take two lists and perform addition between them. Also, handle the appropriate exception(s). 5

OR

- B. When SyntaxError, TypeError, and Zero DivisionError are raised?
- C. What is the use of the raise keyword? 2

Q.5 Answer the following.

- A. Explain various NumPy array creation routines in detail. 7
- B. Explain asarray and fromiter functions by giving examples. 5

OR

B. Write a note on NumPy array broadcasting.

C. Explain NumPy array reshaping giving an example.

2
