

**2211090101030002**  
**EXAMINATION NOVEMBER 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:

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Student's Signature

**Q.1 Write in Detail**

**14**

- (a) Differentiate List, Tuple, Set and Dictionary in detail.
- (b) What is the use of operator in python? Explain types of operators in python

**Q.2 Explain in Detail**

- (a) Explain If, if..else, nested if, if...elif...else, shorthand if with its use and example. **7**
- (b) What is the scope of the variable? Define namespace and lambda function with example. **7**

**OR**

- (b) Explain user define function with example. **7**

**Q.3 Explain in Detail (Any two)**

**14**

- (a) Which attribute return the name of the module in python? Explain python module with example.

- (b) What is namespace? Explain import from module, aliasing a module and dir () in module.
- (c) Write a python program to take input of 5 subjects marks and print the total and percentage.

**Q.4 Justify Following Answers (Any two)**

**14**

- (a) Explain structured exception handling in python.
- (b) Write the list of standard exception provided in python. Also explain any 2-standard exception with example.
- (c) Explain python string with example and functions.

**Q.5 Explain in Detail**

- (a) Define array? Explain any 3-array manipulation function.

**7**

**OR**

- (a) Explain Array Indexing and slicing, also explain array broadcasting.
- (b) Explain any 5 mathematical functions in python.

**7**

**7**

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