

Roll No. : 220A1000 891

Total No. of Questions : 9] [Total No. of Printed Pages : 4

BCA-3001

BCA (Semester-III) (NEP) Examination, 2024-25

(Major)

PYTHON PROGRAMMING

[Paper : First]

Time : 2 Hours]

[Maximum Marks : 75

Note : 1. This paper consists of three Sections-A, B and C.
Attempt questions from all Sections as directed.

2. The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

3. "B" copy will not be provided.

Section-A

(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 5 marks. [9×5=45]

1. (a) Mention and explain the Python features in brief.
- (b) Write short notes on Python identifiers and keywords.
- (c) Mention the features of Lists in Python.
- ~~(d)~~ What is docstring? Explain with example.
- ~~(e)~~ What is meant by module in Python?
- (f) Write a program to accept a number from the user and count its number of *divisors*.
- ~~(g)~~ Write the difference between set and dictionary.
- ~~(h)~~ Why do we need a date class in python?
- ~~(i)~~ What is an exception? List 2 built-in exception types.

Section-B

(Long Answer Type Questions)

Note : Attempt **only one** questions from the following. Each question carries 15 marks. [15×1=15]

2. Explain the need for continue, break and pass statements. Write a program in Python where these three statements are implemented.
3. What is a dictionary? Write the difference between list and dictionary? Write a program to count the number of occurrences of characters in a string.
4. Explain different list comparison with conditional statement and lambda function along with examples.
- ~~5.~~ What is a function? Explain the types of arguments in Python with examples.

Section-C

(Long Answer Type Questions)

Note : Attempt **only one** questions from the following. Each question carries **15** marks. [15×1=15]

- ~~6.~~ What are packages? Explain the creation of package and own module in Python with example.
7. What is date time module? Write the classes of date time module. Write a single program to implement some functions of date time module.

8. What is the name of Python's built in module for working with calendars? Explain in detail. How to Print a whole year calendar in HTML format in Python?
9. What is try except in Python? Explain the concept of multiple exceptions handling? Write a program to handle multiple exceptions.

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