Fourth Semester B.C.A Degree Examinations

May / June 2026

(CBCS NEP Scheme)

NBD 0210: PAPER: PYTHON PROGRAMMING

Time: 2 hrs *Max. Marks: 60*

Instructions to Students:

1. ***The Students should legibly write Section number along with question numbers within the margin ONLY.***
2. ***The answer without Section number and question numbers will not be valued.***
3. ***Draw neat and labelled diagram wherever necessary.***
4. ***Section – I multiple Choice Questions should be answered in the first page of main answer book and same questions shall not be answered repeatedly.***
5. ***Any identifications like marking, ticking, dots etc., in the options of MCQ (Section – I) on the question paper is strictly prohibited. Do not write anything (except register number) on the question paper.***

SECTION – I

I. Select the most appropriate answer from the options provided: $10 \times 1 = 10$

I - 1) Which off the following is not a primary data type off python programming ?

a) Tuples
b) Lists
c) Class
d) Dictionary

I - 2) What is the output for the python programming statements ?

```
a = 10
b = 20
c = a + b
Print (" ", c)
```

a) 30 b) Error c) 1020 d) none of the above

I - 3) What is the purpose of the elif statement in python ?

a) To execute a block of code if the previous condition are false
b) To define a loop
c) To perform arithmetic operation
d) To exit from a loop

Contd..... 2

I - 4) Which keyword is used to define a function in python ?

a) Fun b) Def c) Define d) Function

I - 5) Which of these about a dictionary is false ?

a) The values of a dictionary can be accessed using keys

b) Dictionary items are chargeable

c) Dictionaries are not ordered

d) Dictionaries are mutable

I - 6) Which of the following commands will create a list ?

a) $list1 = list\ ()$ b) List1 = []

c) $list1 = list\ ([1, 2, 3])$ d) All of the mentioned

I - 7) How many except statements can a try - except block have ?

a) Zero b) One

c) More than two d) More than zero

I - 8) Which method is used to create and initialize an object ?

a) Class

b) Constructor

c) User defined functions

d) In – built functions

I - 9) _____ is used to read two characters from a file. using the following object

$infile = open\ (filename,\ \ 'r')$

a) $infile.read\ (2)$ b) $infile.read\ ()$

c) $infile.readline\ ()$ d) $infile.readlines\ ()$

I - 10) Which of the following is valid data for creating a dataframe ?

a) structured ndarray b) Dictionary

c) Iteratable d) All of the mentioned

SECTION – II

II. Answer any FIVE of the following: 5 × 3 = 15

II - 1) Explain any three features of python.

II - 2) What is the necessity of indentation in Python ? Explain.

II - 3) With syntax, explain range () function. Give example.

II - 4) Write a note on recursive functions. Give example code block.

Contd..... 3

II - 5) List any six array methods used in python.

II - 6) Explain, how do you create and display dictionaries in python.

II - 7) List the advantages of using tuples over list in python.

II - 8) What is data visualization ? Explain.

SECTION – III

III. Answer any THREE of the following: 3 × 5 = 15

III - 1) With examples, explain different operations performed on strings.

III - 2) Explain looping statements available in python programming.

III - 3) With example, explain built – in methods of lists.

III - 4) With program snippet, explain different set operations.

III - 5) What is a file ? Explain types of files in python.

SECTION – IV

IV. Answer the following: 2 × 10 = 20

IV - 1) a) Explain different datatypes available in Python programming.

b) Explain console input and console output with example. (5+5)

OR

a) Write a program to demonstrate nested list.

b) With syntax, explain default parameters and key arguments. (5+5)

IV - 2) a) Differentiate list and array.

b) Explain populating and traversing on dictionaries. (5+5)

OR

a) With program example, explain how do we create user defined exception ?

b) Explain different operations performed on numpy arrays. (5+5)

* * * * * * *