

2011000305020086
EXAMINATION FEBRUARY -MARCH 2024
BACHELOR OF SCIENCE (FIFTH SEMESTER)
COMPUTER SCIENCE-XI
(PAPER-506-PYTHON PROGRAMMING-I) - LEVEL 2

[Time: As Per Schedule]

[Max. Marks: 50]

Instructions:

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

- a. Name of the Examination: **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
 - b. Name of the Subject: **COMPUTER SCIENCE-XI (PAPER-506-PYTHON PROGRAMMING-I)- LEVEL 2**
 - c. Subject Code No: **2011000305020086**
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 questions in short. (Any Seven)

14

1. Explain type() function of Python.
2. What is module?
3. Give the output of below code.

```
str = 'programming'
print('str[0]=', str[0])
print('str[-1] = ', str[-1])
print('str[1:5]=', str[1:5])
print('str[5:-2]=', str[5:-2])
```
4. What are the applications of Python?
5. Explain Matrices in Python?
6. How to change column header of dataframe?
7. Explain head() and tail() function of dataframe.
8. What are the features of python?
9. What is a center tendency measure? List methods use with it.
10. Discuss arrays in Python.

Q.2 Write answers for the followings.

12

- A. Explain how Python program executes in detail?
- B. Write a short note on Dictionary.

OR

- A. What is list? Explain list slicing in detail with example.
- B. How to create user define function in Python? Also explain argument passing and calling with example.

Q.3 Write answers for the followings.

12

- A. Explain file modes used during file handling in details with example.
- B. Explain looping statements of Python.

OR

- A. Write a short note on NumPy.
- B. Discuss Pandas. How to perform slicing, merging and joining dataframe in Pandas?

Q.4 Write answers for the followings.

12

- A. Discuss file handling using CSV modules.
- B. Write a short note on line chart

OR

- A. Discuss list and dictionary traversal.
- B. Write a short note on histogram chart.
