



B.Tech V Semester Regular/Supplementary Examinations, February 2024
Python Programming
(Open Elective)
(ECE)

Maximum Marks: 70

Date:17.02.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

| Part-A | | CO | Bloom Tx |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------|
| All the following questions carry equal marks (10x2M=20 Marks) | | | |
| 1 | List any four features of python programming. | CO1 | 2 |
| 2 | Predict the output for the following code snippet <pre>string1 = "Engineering College" print("g" in string1) print("a" in string1).</pre> | CO1 | 2 |
| 3 | Write a python program to check whether the number is even or odd using if-else statements. | CO2 | 3 |
| 4 | Write a python program to find the factorial of a number using recursive function. | CO2 | 3 |
| 5 | Write any four methods of list. | CO3 | 2 |
| 6 | What is a negative index in python? | CO3 | 3 |
| 7 | What is lambda function in python? | CO4 | 3 |
| 8 | How we can modify a string in python? | CO4 | 3 |
| 9 | What is NumPy? How to declare arrays using NumPy? | CO5 | 3 |
| 10 | Write a Pandas program to get the items of a given series not present in another given series. | CO5 | 3 |
| Part-B | | | |
| Answer All the following questions. (5X10M=50Marks) | | | Bloom Tx level |
| 11 | Explain different Data types in python with an example. [10M] | CO1 | 3 |
| OR | | | |
| 12 | List different operators in python, in the order of their precedence. [10M] | CO1 | 3 |
| 13 | Write a python program to find whether a number is prime number or not. [10M] | CO2 | 3 |

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| | OR | | |
| 14 | Good day. Hope you are doing good. Have a great year ahead. Write a python program to count the number of characters, words and lines in the given text. [10M] | CO2 | 3 |
| | | | 3 |
| 15 | What is meant by tuple and how it is created? What are the built-in functions used in tuple? Explain with suitable example. [10M] | CO3 | 3 |
| | OR | | |
| 16 | Explain in detail about dictionaries in Python. list out the operations and methods with example. [10M] | CO3 | 3 |
| 17 | Explain the string methods in Python. [10M] | CO4 | 3 |
| | OR | | |
| 18 | Define function in python. Write a program to Create a function with variable length of arguments 10M | CO4 | 3 |
| 19 | How to Create a 1-D and 2-D NumPy array explain in detail 10M | CO5 | 3 |
| | OR | | |
| 20 | Define Pandas. How to Create Pandas DataFrame from Dictionary of numpy array/List 10M | CO5 | 3 |