

B.E. Electronics & Communication / Telecommunication Engineering (Model Curriculum)
Semester-VII
ET702M - Advanced Programming

P. Pages : 2

Time : Three Hours



GUG/S/25/14248

Max. Marks : 80

- Notes :
1. All questions are compulsory.
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 3. Assume suitable data wherever necessary.

1. a) Write a program to display the Fibonacci sequences up to n^{th} term where n is provided by the user. 8

b) Explain the concept of recursion with an example. 8

OR

2. a) Write a program to reverse the given statement (word by word) using split and join. 8

b) Explain the need for continue and break statements. Write a program to check whether a number is prime or not. Prompt the user for input. 8

3. a) Describe the List and its operation and methods. 8

b) Write a program to find all duplicate characters in string using dictionary. 8

OR

4. a) Convert given to lists into a dictionary
List_1=["A", "B", "C"] List_2[10,20,30] 8

b) What is Tuple? List and explain methods of Tuple. 8

5. a) Explain command line arguments and write a program to demonstrate command line arguments. 8

b) Write a program how to catch multiple exceptions in one line. 8

OR

6. a) Explain 4 different models for opening a file. 8

b) Define keyword mentioned below with syntax. 8

- i) Try
- ii) Except
- iii) Else
- iv) Finally

7. a) Explain the concept of Data Hiding in python with example. 8
- b) Explain the concept of inheritance in detail with an example. 8

OR

8. a) What is constructor? How will you create constructor in python. 8
- b) Explain class and object in python with example. 8
9. a) Explain the usage of pandas in python. 8
- b) How to use Numpy for numerical data work? 8

OR

10. a) Write a program to perform multiplication of two matrix of size 2x2. 8
- b) What is matplotlib in python? Explain with example. 8
