

ET702M - Advanced Programming

P. Pages : 2

Time : Three Hours



GUG/S/23/14248

Max. Marks : 80

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- Notes : 1. All questions are compulsory.
2. Due credit will be given to neatness and adequate dimensions.
3. Assume suitable data wherever necessary.

1. a) Define terms mentioned below: 12
- i) Global variable ii) Break statement
- iii) Recursion iv) Fruitful Function.
- b) Write a program to print first 10 prime numbers. 4

OR

2. a) Write a program to accept the strings and print all the vowels on the screen. 8
- b) Write a program to perform following operation.
- i) Calculate compound Interest 4
- ii) Check the given string is palindrome or not. 4
3. a) Explain Dictionary methods and operations. 10
- b) Write a program to print duplicates from list of integers. 6

OR

4. a) Write a program for counting the frequencies in a list using dictionary. 6
- b) Explain List methods and operation. 10
5. a) Explain how to perform file operations mentioned below with proper syntax. 8
- i) Open ii) Read
- iii) Write iv) Delete
- b) Write a program to find longest word in a file. 8

OR

6. a) Illustrate the process of Exception Handling in Python. 8
- b) Write a program to read first n lines from file (take the value of n from user). 8

7. a) List and describe Object Oriented Programming features. 10
b) Write a program that illustrate multiple inheritance. 6

OR

8. a) Write a program which describe the concept of polymorphism. 8
b) Explain Constructors with suitable example. 8
9. a) How to add an index, row and column to Pandas Dataframe? 8
b) Write a program to perform operation mentioned below.
i) Matrix Multiplication. 4
ii) Find the minimum value from given matrix. 4

OR

10. a) Write a program to plot a line graph using seaborn on IRIS dataset and title the graph using matplotlib (x=sepal – length, y = sepal – width) 8
b) Write a program to perform operation mentioned below.
i) Eigen value of Matrix. 4
ii) Find the maximum value from given matrix. 4
