

ET702M - Advance Programming

P. Pages : 2

Time : Three Hours



GUG/W/22/14248

Max. Marks : 80

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

1. a) Explain Primitive and Non-Primitive data types in detail? **8**
- b) Write a program to print following output : **8**

```
      *
    * * *
  * * * * *
    * * *
      *
```

OR

2. a) Explain conditional statements with example. **8**
- i) If-Else
- ii) Nested If – Else
- b) Write a program to find factorial of a number with the help of recursion. **8**
3. a) Explain Tuples methods and operations. **8**
- b) Write a program to find second largest odd number in a list. **8**

OR

4. a) Write a short note on: **8**
- i) Cloning Lists
- ii) Mutability
- b) Write a program to print duplicates from the list of integers. **8**
5. a) Define keyword mentioned below with syntax. **8**
- i) Try
- ii) Except
- iii) Finally
- b) Write a program to demonstrate command line argument in python. **8**

OR

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|-----------|----|---|----------|
| 6. | a) | Describe Exception Handling in Python. | 8 |
| | b) | What are the three types of errors in python? Explain with example. | 8 |
| 7. | a) | Explain class and object in python with example. | 8 |
| | b) | How will you create constructor in python. | 8 |

OR

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|-----------|----|--|----------|
| 8. | a) | Write a program for Multilevel inheritance in python. | 8 |
| | b) | Explain the concept of Data Hiding in python with example. | 8 |
| 9. | a) | Write a program to perform multiplication of two matrix of size 3x3. | 8 |
| | b) | What is matplotlib in python? Explain with example. | 8 |

OR

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|------------|----|---|----------|
| 10. | a) | Explain the usage of pandas in python. | 8 |
| | b) | Write a program to find common items in two series. | 8 |
