



**R19**

Code No: 864AA

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA IV Semester Examinations, July/August - 2021**

**PYTHON PROGRAMMING**

**Time: 3 Hours**

**Max.Marks:75**

**Answer any five questions  
All questions carry equal marks**

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1. List out the main differences between Lists and Tuples with examples. [15]
2. Explain the following built-in file functions with clear syntax, description and example.  
a) open( )    b) read( )    c) tell( )    d) seek( ) [15]
3. Explain briefly about Thread and Threading module objects in Python with example. [15]
- 4.a) Explain briefly web surfing with python.  
b) How to create web clients in python? Explain in detail. [7+8]
5. Explain Object Relational Managers (ORMs) and its modules with example. [15]
- 6.a) List and explain few most commonly used built-in types in python.  
b) Write Python Program to count the number of characters in a given string. [7+8]
- 7.a) How to Detecting and Handling Exceptions in python? Explain in detail.  
b) Illustrate the concept of packages in python with example. [7+8]
8. Write Python GUI program that produces a window with the following widgets:  
a) A button to retrieve the next value in the list.  
b) A label to display the number of the items and the total number of items. [7+8]

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