R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, February/March - 2022
PYTHON PROGRAMMING
(Electrical and Electronics Engineering)

Time: 3 Hours   **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks
- - -

1.a)   What are the features of Python? Describe them briefly.
  b)   Discuss some commonly used built-in types, standard type operators, built-in functions in python.   [6+9]

2.a)   Explain various operators and built-in functions related to list and tuples in python.
  b)   What is a string? List and discuss in detail about the built-in functions for python strings.
                                                                                                              [7+8]

3.   With an example script demonstrate the following methods of file object in python:
      a) file.next()   b) file.truncate()   c) file.fileno() d) file.flush().   [15]

4.   How various exceptions are detected and handled in python? Discuss various statements and methods used for exception handling in python using sample script.   [15]

5.   Explain the core functionality of the following pattern matching and string searching functions in python:
      a) match()   b) group()   c) search()   d) split()   e) sub()   [15]

6.a)   Differentiate between procedures/processes and threads.
  b)   List and explain various methods available in Thread class of python.   [5+10]

7.   Describe the following Tkinter widgets using an illustrative python script.
      a) Label   b) Button   c) Scale   [5+5+5]

8.   State the need of ORMs. Explain in detail about SQLObject ORM by considering employee role database example.   [15]

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