

Code No: 137GD

R16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, October/November - 2020

PYTHON PROGRAMMING

(Common to CSE, IT)

Time: 2 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Why are variable type declarations not used? Justify your answer with examples.
b) Make a comparison of internal types: Ellipsis and Xrange. [8+7]
- 2.a) Which python types are immutable? Explain with examples.
b) List built-in methods used for string comparison. [7+8]
- 3.a) Write python program to append the content of second file to first file. [read two file names as command line arguments]
b) Explain the python modules for serialization and persistency. [10+5]
- 4.a) With an example discuss except statement with multiple exception.
b) Differentiate between importing and loading of a module. [7+8]
- 5.a) Formulate the regular expressions pattern for the following:
i) words which starts with 'the'
ii) matches only with word 'the'
iii) any string which contains 'the' but does not begin with 'the'.
b) Differentiate between Lock and RLock objects. [8+7]
6. Write a program to demonstrate multi threaded mechanism provided by thread module in python. [15]
7. Create a web crawler as an advanced web client using python modules. [15]
- 8.a) "SQLAlchemy provides more flexibility in issuing raw SQL" Substantiate this statement.
b) Discuss the following commonly used query methods: offset(), filter_by(), order_by(). [7+8]

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