JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, March - 2021
PYTHON PROGRAMMING
(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

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1.a) Compare Python with Java, C++.
 b) What is a module? How to import it? How to call a module function or access a module variable?   [7+8]

2. Develop a Python application which looks for a search word in a file and displays each matching line as well as a summary of how many matching lines were found and give an analysis of your program.   [15]

3.a) What is pickling? How is it performed? Give example.
 b) Why are command-line arguments useful? Write code to display the command-line arguments which were entered.   [8+7]

4.a) Describe how programmers can generate exceptions within their code.
 b) Write a program to handle arithmetic exception.   [8+7]

5.a) What strings will be matched with the following regular expression pattern
   i) ^From   ii) ^Subject:hi$ iii) \bthe\b   iv) \Bthe
 b) Write a multithreaded application, to execute thee recursive functions – Fibonacci, factorial, summation.   [6+9]

6. Create a simple text editor using Tkinter and Python. A file can be created from scratch or read and displayed into a text widget which can be edited by the user. When the user quits the application, the user is prompted whether to save the changes.   [15]

7. Write a Python script to implement a crawler, an advanced Web client.   [15]

8.a) Explain the functionality of object relational manager.
 b) How to perform CRUD operations on a database table using Python? Give scripts.[7+8]

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