R19

Code No: 864AA

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA IV Semester Examinations, March/April - 2022
PYTHON PROGRAMMING

Time: 3 Hours   Max.Marks:75

Answer any five questions
All questions carry equal marks
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1.a)   What are the various ways of quoting strings in python? Explain how to read strings from user and print them with an illustrative python program.
  b)   Illustrate the following built-in-functions in python: [5+10]
       i) cmp()   ii) repr()   iii) str()   iv) type()   v) isinstance()

2.a)   Demonstrate the concept of implicit and explicit conversion.
  b)   Summarize various string built-in-functions briefly.   [7+8]

3.   Explain the following file system built-in functions with illustrative examples: [15]
     a) stat()   b) access()   c) chmod()   d) umask()

4.a)   State the advantages of using modules in programming.
  b)   Write a python program to raise division-by-zero exception and explain how to handle using python exception handling mechanism in detail.   [5+10]

5.   What are regular expressions? Examine how Python supports regular expressions through 're' module.   [15]

6.a)   What are threads and processes? How is a thread different from a process?
  b)   Explain the following 'tHRead' module functions in detail with example codes in python.
       i) start_new_thread()   ii) allocate_lock()   iii) acquire()   [6+9]

7.   What are the core urlparse module functions used to manipulate url strings? Give a detail description of each function/method.   [15]

8.   What is the need of Object-Relational Managers? Explain in detail about python ORM SQLAlchemy basic feature with an example application.   [15]

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