2C8125

MCA II - Sem. (Main) Exam., - 2022
MCA – 205 Python Programming

Time: 3 Hours

Maximum Marks: 70

Instructions to Candidates:

Attempt all ten questions from Part A. All five questions from Part B and three questions out of five questions from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL _____   2. NIL _____

PART – A

(Answer should be given up to 25 words only)   [10×2=20]

All questions are compulsory

Q.1 Write name of any two Python editors (IDE).

Q.2 What is the output of print str[2:5] if str = 'Hello World'?

Q.3 What do you mean by Dictionary in Python?

Q.4 What is list?

Q.5 What is Inheritance?

Q.6 What do you mean by constructor in Python?

Q.7 What is Regular Expression?

Q.8 What are exceptions in Python?

Q.9 Define multithreading.

Q.10 What are Python Modules?

PART – B
(Analytical/Problem solving questions) [5×4=20]
Attempt all five questions (Word limit 100)

Q.1 Explain different data types supported by python.

Q.2 What is Indexing and Negative Indexing in Tuple?

Q.3 Design a class student that store the information of a student and displays the same.

Q.4 Examine how Python supports Regular expressions through 're' module with brief introduction and various built in methods related to it.

Q.5 Explain briefly about thread and threading module objects in python.

PART – C
(Descriptive/Analytical/Problem Solving/Design Questions) [3×10=30]
Attempt any three questions

Q.1 Describe the syntax for the following in-built functions and explain with example. (Any five) -

(a) abs ( )   (b) len ( )

(c) any ( )   (d) ord ( )

(e) chr ( )   (f) pow ( )

Q.2 Explain the purpose of loop statement in a programming language. With the help of suitable example describe the syntax and semantics of any three loop statements provided by python.

Q.3 Explain in detail about python files, its types, functions and operations that can be performed on files with examples.

Q.4 Explain Exception Handling Mechanism in Python. Write a python program to accept an integer number and catch the exception if a floating point number is entered.

Q.5 Explain in detail about database connectivity in Python. Write a python, program to create a table and insert some records in that table, finally select all rows from the table and display the records.