

2C8125

Roll No. _____

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M.C.A. II-Sem. (Main/Back) Examination, June/July - 2025
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 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. (As Mentioned in form No. 205).

PART - A
(Word limit 25)

All questions are compulsory.**(10×2=20)**

1. What is Python?
2. Mention any four examples of Python Application.
3. What is Indentation?
4. Define Tuples.
5. Write syntax for else statement.
6. Define Polymorphism.
7. What are Exceptions?
8. Write syntax for try-except.
9. What is import statement in modules?
10. Define threads.

PART - B
(Word limit 100)

All questions are compulsory.**(5×4=20)**

1. State and explain any six features of python.
2. Explain following operators of python with suitable examples of each.
 - a) is,
 - b) in,
 - c) not in

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3. With syntax and program explain the concept of elif statement in decision making.
4. List some few common Exception types and explain when they occur.
5. Explain the concept of Database connection using python in detail.

PART - C

Answer any Three of the following questions.

(3×10=30)

1. Explain all comparison operators of python with suitable examples of each.
 2. Define python tuples? With program explain the concept of Accessing values in tuples, updating tuples and deleting tuple elements.
 3. What is inheritance? Illustrate types of inheritance with python code.
 4. What are Exceptions in Python? Explain the methods of detecting and handling the exceptions.
 5. What is Python multithreading? Explain understanding, Forking and synchronization of threads in detail. <https://www.pyqonline.com>
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