

QUESTION BANK

MASTER OF COMPUTER MANAGEMENT (MCM)

Course: MCM – II (Semester – IV)

Paper - II: Elective

Elective – III: Python (4T2)

Part - A

(Each question carries **Two** marks)

UNIT – I

1. What is Python?
2. What is Program?
3. What is Debugging?
4. What do you mean by interactive mode in Python?
5. What do you mean by Script mode in Python?
6. What is Value?
7. What is Keywords in Python?
8. What is Parameter?
9. What is Expression?
10. What is Token?
11. What is Parsing?
12. What is type conversion in Python? Give an example.

Part - B

(Each question carries **Three** marks)

UNIT – I

1. What is Syntax error in Python? Give an example.
2. What is Semantic error in Python? Give an example.
3. What is Statement? Give an example.
4. What is comment line in Python? Give an example.
5. How we can call a function in python?
6. What is the need of function in Python?
7. What is Module? Give an example.
8. What do you mean by formal languages?
9. What is runtime error? Give an example.
10. What is floor division in python? Give an example.
11. What is variable in python? Give an example.

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Part - C

(Each question carries **Five** marks)

UNIT – I

1. Explain Order of operation with suitable example in Python?
2. Explain various string operations with suitable example in Python?
3. What is type conversion in Python? Explain with suitable example.
4. What is function? How we can define a function in Python? Explain with suitable example.
5. Explain values and types in Python with example.
6. Explain variables in Python with suitable example.
7. Explain interactive mode and Script mode in Python with suitable example.
8. What do you mean by Variables and Parameters are local? Explain with example.
9. Explain Math function in detail?

Part - C

(Each question carries **Ten** marks)

UNIT – I

1. What is Bug? Explain various types of error are available in Python with suitable example.
2. What is operator and operands? Explain various operators are available in python with suitable example.
3. Explain various Math functions are available in python with suitable example.
4. Explain Parameters and Arguments in details with example.
5. Write short notes on following:-
 - a. Stack diagram
 - b. Fruitful functions and void function

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Part - A

(Each question carries **Two** marks)

UNIT – II

1. What is Modulus Operator? Give an example.
2. What is Recursion?
3. What is date code in python?
4. What do you mean by Composition?
5. What is String?
6. What do you mean by looping?
7. What is Boolean expression? Give an example.
8. What do you mean by IN operator in python?
9. State logical operator of python with example?

Part - B

(Each question carries **Three** marks)

UNIT – II

1. What is Nested if statement? Give an example.
2. How we can take input from the user?
3. What is Function? Give an example.
4. What do you mean by break statement in python? Give an example.
5. Why string is called immutable?
6. State Infinite recursion with suitable example in python?
7. What is Compound statement? Give an example.
8. What is Boolean expression? Give an example.

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Elective – III: Python (4T2)

Part - C

(Each question carries **Five** marks)

UNIT – II

1. Explain if else statement with suitable example?
2. Explain Nested if statement with suitable example?
3. Explain Infinite recursion with suitable example?
4. Explain Boolean functions with suitable example?
5. Write short notes on return statement?
6. Explain while statement with its syntax and example.
7. Explain Break statement with suitable example
8. Explain For loop statement with its syntax and example.
9. Why strings are immutable? Explain with suitable example
10. Explain recursion with suitable example in python?

Part - C

(Each question carries **Ten** marks)

UNIT – II

1. Write short notes on:-
 - a. Modulus Operator
 - b. Relational Operator
 - c. Logical Operator
 - d. Boolean Operator
2. What is recursion? Differentiate function and recursion in python? Write a program to calculate factorial using recursion in python.
3. What is string? Explain in detail "String is immutable". Also explain various string methods available in python.
4. Explain various if else statement with suitable example in python.
5. Write short notes on following:-
 - a. While loop statement
 - b. For loop statement

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Paper - II: Elective

Elective – III: Python (4T2)

Part - A

(Each question carries **Two** marks)

UNIT – III

1. What is list?
2. What is dictionary?
3. What is lookup operation in python?
4. What is hash function?
5. What is tuples?
6. What is histogram?
7. What is singleton?
8. What is Reverse lookup operation?

Part - B

(Each question carries **Three** marks)

UNIT – III

1. Why list are called mutable?
2. What is alising? Give an example.
3. Why tuples are called immutable?
4. What is mapping?
5. What is global variable?
6. What do you mean by Dictionary in python? State with an example.

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Paper - II: Elective

Elective – III: Python (4T2)

Part - C

(Each question carries **Five** marks)

UNIT – III

1. Explain various list operations with example?
2. Write a short note on 'list and sting' with example.
3. Write a short note on 'object and values'.
4. Explain list argument with example.
5. Write a short note on 'looping and dictionaries'.
6. What global variable in python?
7. Explain variable length argument tuples with suitable example.
8. Explain 'Sequences of sequences' in details.
9. Explain in detail "list are mutable".

Part - C

(Each question carries **Ten** marks)

UNIT – III

1. Write a short note on following:-
 - a. Lists and tuples
 - b. Dictionaries and tuples
2. Write a short note on following:-
 - a. Tuple assignment
 - b. Comparing tuples
3. Explain reverse lookup in details.
4. Explain 'dictionary as a set of counters' in details.
5. Explain dictionaries and list in details.
6. Write a short note on following:-
 - a. Looping and Dictionaries
 - b. Dictionaries and list

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Part - A

(Each question carries **Two** marks)

UNIT – IV

1. What is pickle module in python?
2. What is the role of init method in python?
3. What is persistence?
4. What is format operator?
5. What is format string?
6. What is class?
7. What do you mean by embedded object?
8. What do you mean by pure functions?
9. What do you mean by object oriented programming?
10. What do you mean by instance attribute?

Part - B

(Each question carries **Three** marks)

UNIT – IV

1. State object are mutable in python?
2. What is polymorphism? Give an example.
3. What is class attribute? Give an example.
4. What is inheritance?
5. What is operator overloading?
6. What do you mean by information hiding?
7. What do you mean by instance? Give an example.
8. What do you mean by prototype and patch?
9. What is multiplicity?
10. What do you mean by IS-A relationship and HAS-A relationship?

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Part - C

(Each question carries **Five** marks)

UNIT – IV

1. Explain the concept of operator overloading with example?
2. Write Short notes on following:
 - a. Pickling
 - b. Pipes
1. Explain Read() and Write() method with suitable Example in Python.
2. Explain Exception Handling with Example.
3. Explain The Concept of Data Bases in Python.
4. Write Short notes on Following:-
 - a. Time
 - b. Attributes
5. Write down the various features of object oriented programming?
6. Explain the concept of polymorphism with suitable example?
7. Explain the concept of Type Base dispatch in Details?
8. Explain the concept of Interface with Example?

Part - C

(Each question carries **Ten** marks)

UNIT – IV

1. Write short notes on following:-
 - a. Inheritance
 - b. Data Encapsulation
2. Explain inheritance in Details?
3. Explain Data encapsulation in Details?
4. Define Prototyping and Planning? Differentiate prototyping and planning in details.
5. Write short notes on following:-
 - a. Pure function
 - b. Modifiers