

Government College of Engineering, Aurangabad

(An Autonomous Institute of Government of Maharashtra)

F.Y. MCA FT (CBCS) Examination

Re-End Semester Examination Nov 2022

MC1113: Python Programming

Max. Marks: 60

Time: 3.0 Hours

"Verify the Course Code and check whether you have got the Correct Question Paper"

N.B.

1. Attempt all questions.
2. Figures to the right indicate full marks.
3. Assume suitable data if necessary and state it clearly.
4. Use of Non-Programmable Calculator and Data Sheet is allowed.

10 NOV 2022

Q1	Attempt any two	CO	LEVEL	MARKS
	a. What are lists in python? How to define and access the elements of list?	CO1	K2	6
	b. Discuss the int(), float(), str() type conversion functions with examples.	CO1	K1	6
	c. Write a Python program to convert height in feet and inches to cm. [1 feet = 12 inch and 1 inch = 2.54 cm] (Sample input: 2 feet 7 inch Sample output: 78.74 cm)	CO2	K3	6
Q2	Attempt any two	CO	LEVEL	MARKS
	a. Differentiate between continue and pass statements	CO1	K2	6
	b. What are the different loops available in python? Explain in brief.	CO2	K1	6
	c. Write a program to display the Fibonacci sequences up to nth term where n is provided by the user.	CO2	K3	6
Q3	Attempt any two	CO	LEVEL	MARKS
	a. Differentiate between the functions with key word arguments and functions with default arguments.	CO1	K1	6
	b. Explain the concept of method overriding with an example.	CO3	K3	6
	c. Write a python code to check whether the given number is Armstrong number using modules.	CO2	K3	6
Q4	Attempt any two	CO	LEVEL	MARKS
	a. List the various dictionary methods and explain any 3 of them.	CO1	K1	6
	b. Explain the except clause with multiple exceptions.	CO1	K1	6
	c. Write a program to use max(), min() and sorted() methods in tuples	CO3	K3	6
Q5	Attempt any two	CO	LEVEL	MARKS
	a. Describe the different access modes of the file manipulation.	CO4	K1	6
	b. Write a Python program to create a table and insert some records in that table. Then selects all rows from the table and display the records.	CO4	K3	6
	c. Write a program to copy contents of one file onto another.	CO4	K3	6

$$\begin{array}{r} 2500 \\ 50 \\ \hline 3100 \\ 90 \\ \hline 3190 \end{array}$$

Time: 3 Hours & 15 minutes

3 Hours & 15 minutes 28.11.2022
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		CO	LEVEL	MARKS
Q1	Attempt any two			
	a. What is variable? What are the rules and conventions for declaring a variable?	CO1	K1	6
	b. Explain, in detail, the Identity and Membership operators in python with appropriate examples.	CO3	K2	6/2
	c. What is the output of the following expressions a) 54//17 b) -17//10 c) 2==3-1 d) 4+5*3//5 e) [1,2,3,4,5][1] f) (1,2,3)*3	CO3	K3	6/2
Q2	Attempt any two	CO	LEVEL	MARKS
	a. What is the purpose of <i>else</i> clause in a loop? Explain how <i>else</i> works with <i>while</i> and <i>for</i> loops, with examples.	CO2	K1	6
	b. Explain the use of <i>break</i> and <i>continue</i> statement in <i>For</i> loop with suitable examples.	CO2	K1	6/2
	c. Write a program to add digits of a number using while loop.	CO2	K3	6/07
Q3	Attempt any two	CO	LEVEL	MARKS
	a. Differentiate between the functions with key word arguments and functions with default arguments.	CO1	K2	6
	b. What is inheritance? Demonstrate the implementation of multilevel inheritance.	CO1	K1	6/2
	c. Write a python program to find factorial of a number using a recursive function.	CO3	K3	6/03
Q4	Attempt any two	CO	LEVEL	MARKS
	a. Discuss the following list functions. a) len() b) sum() c) any() d) all() e) sorted()	CO1	K2	6/03
	b. How to handle an exception using <i>try except</i> block? Explain with the help of a program.	CO1	K3	6
	c. Write a Python program to check whether a string is palindrome.	CO3	K3	6
Q5	Attempt any two	CO	LEVEL	MARKS
	a. Discuss the following methods associated with the file object a) read() b) readline() c) readlines()	CO4	K1	6/03
	b. Write a python block to create the table StudentInfo with suitable attributes/columns in MySQL. And then write a python program to insert some records in the table and fetch all rows from the table.	CO4	K3	6
	c. Write a program to append one file into another.	CO4	K3	6/03

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Time: 3.0 Hours

Max. Marks: 60

15 JUL 2023

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1. Attempt all questions.
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		CO	LEVEL	MARKS
Q1	Attempt any two			
	a. What are lists in python? What is the difference between the list methods <i>append</i> and <i>extend</i> ? Explain with suitable examples.	CO1	K2	6
	b. Explain python logical operators with suitable example.	CO1	K1	6
	c. Write a Python program that interchanges the first and last character of a given string.	CO5	K3	6
Q2	Attempt any two			
	a. Explain <i>if _elif _else</i> statement in python with syntax, flowchart and example?	CO2	K1	6
	b. Write a program to display the Fibonacci sequences up to n th term where n is provided by the user.	CO2	K3	6
	c. Write a Python program to count the number of vowels in a string provided by the user.	CO3	K3	6
Q3	Attempt any two			
	a. Describe function with default arguments with suitable program.	CO3	K1	6
	b. Explain how to implement multiple inheritance in Python.	CO3	K2	6
	c. Write a program to find the factorial of given number without recursion and with recursion.	CO5	K3	6
Q4	Attempt any two			
	a. Explain how to create, raise and handle user defined exceptions in Python.	CO1	K1	6
	b. Write a Python function that takes two lists and returns True if they have at least one common member.	CO3	K3	6
	c. Write a Python program to handle a <i>ZeroDivisionError</i> exception when dividing a number by zero.	CO5	K2	6
Q5	Attempt any two			
	a. How to perform <i>open, read, write, and close</i> operations on a text file?	CO1	K1	6
	b. Write a program to display contents of a text file on the monitor by reading it word by word.	CO4	K3	6
	c. Write a Python program to create a table and insert some records in that table. Finally selects all rows from the table and display the records. Use suitable names for data base and table.	CO4	K3	6

(a, b)

(a, b = 5)

a=10 b=5

a, b = 10