

**Government College of Engineering, Aurangabad**

## Department of MCA

**Midterm Test 2022-23 (Second Semester)**

**Class – FYMCA**

**Subject –MC1113 Python Programming**

**Date – 01/06/2023**

**Max. Marks – 20**

## Q1

### Attempt Any Two

- Explain any two sequential data types in python with proper example. (5)
- Write a program to find largest of three numbers without using max() function. (5)
- With suitable examples, explain the membership and identity operators. (5)

Q2

### Attempt Any Two

- a) With suitable program, explain the working of while loop. (5)
- b) Explain the following dictionary methods (5)
- |                  |                 |
|------------------|-----------------|
| i. dic.clear()   | iii. pop()      |
| ii. dict.items() | iv. dict.copy() |
- c) Write a program to find sum of digits in the string. (Read a string with alphabets and digits.) (5)



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**F.Y. MCA FT (CBCS) Examination**

End Semester Examination July -2023

**MC1113: Python Programming**

Time: 3.0 Hours

Max. Marks: 60

**15 JUL 2023**  
"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

Q1	Attempt any two	CO	LEVEL	MARKS
	a. What are lists in python? What is the difference between the list methods <b>append</b> and <b>extend</b> ? 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 <b>if _elif _else</b> statement in python with syntax, flowchart and example?	CO2	K1	6
	b. Write a program to display the Fibonacci sequences up to $n^{\text{th}}$ 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 <b>ZeroDivisionError</b> 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



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