Government College of Engineering, Aurangabad
(An Autonomous Institute of Government of Maharashtra)
End Semester Examination July 2023
F.Y. M.C.A. (CBCS - 2 Years) Examination
MC1111: Object Oriented Programming with Java

1 1 JUL 2023

Time: 3Hours   Max. Marks: 60

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

		Marks	B.T. Level
Q.1)	**Attempt any Two**		
a)	Explain the following features of Java: i) Platform Independent ii) Portable iii) Distributed	06	K2
b)	Illustrate the concept of type casting in detail with suitable Java code.	06	K3
c)	Write a short note on: Method Overriding.	06	K1
Q.2)	**Attempt any Two**	Marks	
a)	Demonstrate how a sub-class constructor is used to construct the instance variables of both sub-class & the super-class.	06	K3
b)	Write a short note on: i) Thread priority ii) Synchronization.	06	K1
c)	With proper code, explain the instance variable, static variable & local variable.	06	K2
Q.3)	**Attempt any Two**	Marks	
a)	Explain the following string functions with syntax & example for each: i) equals() ii) compareTo () iii) trim ()	06	K2
b)	With a suitable example demonstrate how packages are created, accessed & used.	06	K3
c)	From the overall learning about the applets, design the life cycle of an applet in Java and determine the various stages, an applet under goes in its lifecycle.	06	K4
Q.4)	**Attempt any Two**	Marks	
a)	Compare and contrast between AWT & Swing.	06	K4
b)	Write a short note on: Event handling in Java.	06	K1
c)	Develop a java program to demonstrate 2D arrays by finding multiplication of two 3*3 Matrices.	06	K6
Q.5)	**Attempt any Two**	Marks	
a)	Explain in detail how exception handling mechanism in java works.	06	K2
b)	Explain the Static and Non-static inner classes in java with suitable example.	06	K2
c)	Develop a java program for accepting 10 integer numbers and sort them in ascending order using bubble sort.	06	K6

* Note: B.T. Level: Bloom's Taxonomy Level