

GOVERNMENT COLLEGE OF ENGINEERING, AURANGABAD

Department of Master of Computer Application

Mid Term Class Test (Semester-I) June -2023

Class: SYMCA

Date: 02/06/2013

MC1111: Object Oriented Programming with Java

Marks: 20

Time: 1 Hr.

Note: 1) Solve any four questions. 2) Each question carries 5 marks.

Q.1) List and explain some important features of java.

Q.2) With suitable java code explain, a) instance variable, class variables & local variable.

Q.3) With suitable Java code explain the concept of type casting in detail.

Q.4) What is a wrapper class? With suitable code explain the important methods of it.

Q.5) Explain the following string methods with example:

i) `subString(n,m)` ii) `indexOf('x')` iii) `setCharAt(n,'x')`

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

Time: 3Hours

11 JUL 2023

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			
Explain the following features of Java:			
a)	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