Mid Semester Examination

Max. Marks: 30
Class: FY MCA
Course Code: MC506
Subject: JAVA Programming

Semester: II
Date: 05/03/2024
Time: 60 minutes

Instructions: (1) All questions are compulsory.
(2) Assume any necessary data but justify the same.

Q. No.	Questions	Marks	CO	BL
Q. 1	Answer the following	05		
A	Why is method overloading not possible by changing the return type in java?	1	CO 1	L3
B	Do I need to import the java.lang package any time? Why?	1	CO 1	L4
C	Can I import the same package/class twice? Will the JVM load the package twice at runtime?	1	CO 1	L4
D	What classes allow you to convert byte streams to character and back?	1	CO 1	L3
E	Explain public static void main(String args[]) in Java.	1	CO 1	L4
F	What is the volatile keyword? How and why would you use it?	1	CO 2	L3
G	Write a program to demonstrate the following i) To convert lower case string to upper case. ii) To compare two strings.	4	CO 2	L3
Q. 2 A	Difference between (Any three) Write only two important point of difference. 1. super and super() 2. Final static variable and static variable 3. Binary and Character streams 4. sleep() and wait() 5. FileReader and BufferReader,	6	CO 2	L3
Q. 2 B	Write a java program to find the factorial value of the given number using user defined package concept.	04	CO 1	L3
Q. 3 A	Answer the following (Any Two) 1. What are the different states in the life cycle of Thread? Can we call the run () method of a Thread class? 2. State four similarities between Interfaces and Classes. 3. Describe the uses of final and super keywords with respect to inheritance 4. What is a Constructor? Explain types of Constructors in Java?	06	CO 2	L3
Q. 3 B	Write a Java program that creates three threads. First thread displays "Hello!" every one second, the second thread displays "Wear Mask!" every two seconds and "Use Sanitizer!" every 5 seconds.	04	CO 2	L3