## Dr. Shyama Prasad Mukherjee University, Ranchi PG Department of Mathematics & MCA

# Model Question Paper MCA, SEMESTER-III Java Programming (ECMCA301A)

### Group-A Multiple Choice Questions (Compulsory)

1.	Java is associated with programming Language
	a) Oak
	b) Basic
	c) C
	d) Perl
2.	Which Property does not hold good for Java.
	a) Object oriented
	b) Secure
	c) dynamic
	d) Complex
3.	A compiler converts the Java program into an intermediate language
	representation called
	a) byte code
	b) byte
	c) byte class
	d) byte java
4.	Operator is used to create an object.
	a) class
	b) new
	c) print
	d) main
5.	Which of the following is NOT a Java Keyword?
	a) Abstract
	b) Native
	c) Package
	d) Synchronize
6.	Java platform consists of JVM and a package of readymade software
	components this package is known as

a) Java API
b) JVM API
c) JM API
d) API
7. An determines which features of a class may be used by other classes.
a) specifier
b) inheritance
c) implementation
d) Access specifier
8. Which of the following is not an Exceptions in Java.
a) ArithmeticException
b) NullPointerException
c) ArrayOutOfBoundsException
d) LogicalException.
9. Two kinds of data types in java areand
a) Primitive, standard
b) Primitive, Abstract
c) abstract, derived
d) constants, variables
10. What will be the return type of a method that not returns any value?
a) void
b) int
c) double
d) None of the above
11. The variables declared in a class for the use of all methods of the class are
called.
a) reference variables
b) objects
c) instance variables
d) None of these
12 method cannot be overridden.
a) Super
b) final
c) private
d) None of these
13. The String method compareTo() returns
a) true
b) int value
c) 1

<ul><li>c) Same or dif</li><li>d) None</li></ul>	referre	
c) Same or dif	referit	
•	TAPANT	
b) Different	Yana ah	
a) Same		
To successfull	y overload a method in Java, the method names must	t be
d) Zero Fill Lef	ft Shift	
c) Zero Fill Rig	ght Shift	
b) Right Shift (	Operator	
a) Left Shift O	perator	
What do you m	nean by >>> operator in Java	
d) Editing tools	s and interfaces.	
c) Classes and	l interfaces	
b) Interfaces		
a) Classes		
A package is a	collection of	
d) Polymorphis	sm	
c) Data Hiding		
b) Abstraction		
a) Encapsulation	on	
The wrapping u	up of data and functions into a single unit is called.	
d) All of the ab	pove	
c) A constructo	or may be declared private	
b) A constructo	or is used to create objects.	
a) A constructo	or must have the same name as the class it is declared wit	hin.
Which one is tr	rue about a constructor?	
d) Block of coo	de written inside a class	
c) Name of Jav	va source code file	
b) Code genera	ated by a Java Virtual Machine	
a) Code genera	ated by a Java compiler	
What is byte co	ode in Java?	
d) java.string		
c) java.applet		
b) java.lang		
a) java.awt	5	
•	g belongs to package.	
d) -1		
	•	d) -1 The class string belongs to package.

#### **Short Answer Type Questions**

- 1. What are command line arguments? Give a suitable example.
- 2. What are JVM and the structure of JVM?
- 3. Explain with example of conditional operators? Give a suitable example.
- 4. What is Scanner class? Explain any five methods of Scanner class
- 5. Write a program input three numbers to find out greatest using nested if statements.
- 6. Write a program input an alphabet to check the alphabet is vowel or not vowel using switch case.
- 7. Write a program to calculate factorial of a given number using recursion.
- 8. Define method overloading. Give a suitable example
- 9. What is super keyword? When use super keyword? Give a suitable example.
- 10. Explain with example of final keyword in java.
- 11. Explain with example of any two string methods.
- 12. What is java.util package? Explain ArrayList class in Java.

#### Group-C Long Answer Type Questions

- 1. What is a constructor? Explain with example of all types of constructor in Java.
- 2. What is Inheritance? Explain with examples of all types of inheritances supported in Java.
- 3. a) Write a program to calculate addition of two complex numbers using passing by value method.
  - b) What is Interface class? Explain how to perform in Multiple Inheritance in Java?
- 4. a) What is method overriding? Explain the rules of method overriding and give a suitable example.
  - b) What is user-defined package? How to create a user-defined package write the steps.
- 5. What is exception? Explain the syntax of try block and catch block with a suitable example.

\*\*\*\*\*