## Dr. D. Y. Patil Institute of Technology, Pimpri, Pune Department of Computer Engineering QUESTION BANK

## 210255: PRINCIPLES OF PROGRAMMING LANGUAGES

## Unit – 3 Java as Object Oriented Programming Language – Overview

Sr.No	Question Description	PLO* & Level
1	Justify the meaning of each characteristics of java in the statement "java is simple,	PLO1, L1
	architecture neutral, portable, interpreted and robust and secured programming language"	
2	Explain why java is secured, portable and dynamic? Mention the concepts in java that	PLO3, L2
	ensures these.	
3	Explain Java's role in internet. Justify the features of Java	PLO3, L2
4	Distinguish between Java and C Programming	PLO3, L3
5	Distinguish between Java and C ++ Programming	PLO3, L3
6	Explain various operators in java Programming	PLO3, L1
7	Explain the concepts of OOPS and List the Advantages of OOPS over procedure oriented	PLO1, L1
	Programming	
8	Write the key features of Java Programming.	PLO3, L1
9	Write a program in Java to perform the addition of two matrices multidimensional arrays and set	PLO1, L2
	the diagonal elements of resultant matrix to 0.	
10	Write a program in java to perform the addition of two matrices (multi dimentional arrays)	PLO3, L2
	and set the diagonal elements of the resultant matrix to 0.	
11	Write a program in java to read a matrix of 3 * 3 and performs the addition of elements in	PLO3, L2
	each row and each column.	
12	State String class in Java and explain the following methods of String class with example. i.	PLO3, L1
10	Finding length of a string. ii. Comparing two strings iii. Extracting a character from a string	DI 04 1.0
13	List and Explain any 5 string functions with examples  Define String in Java programming. Explain the following operations of class strings in Java	PLO1, L2 PLO1, L2
14	Define String in Java programming. Explain the following operations of class strings in Java with example. 1. To find the length of a string. 2. To compare two strings 3.Extraction of	FLOT, LZ
	character from a string	
15	Write a program to print the area of a circle by creating a class named 'Area' having two methods.	PLO1, L2
10	First method named as 'setRadius' takes radius of circle as parameter and the second method	1 LO1, LZ
	named as 'getArea' returns the area of the circle. Radius of circle is entered through keyboard.	
16	List the use of constructors in Java and metion the various types of constructors in Java	PLO3, L3
	programming with example	
17	Define Constructor. Show with the example about overloading of default, parameterized	PLO3, L3
	and copy constructor.	

18	Demonstrate through a program in java , that how constructors can be used for initializing	PLO3, L3
	the elements of matrix with '0' in the example of adding two matrices.	
19	Explain the key word 'this' with example program	PLO1, L3
20	Explain Garbage Collection concept in Java Programming	PLO1, L3
21	Explain the following Java concepts and state the uses with example.	PLO1, L3
	'this' keyword and finalize() method.	
22	Explain method overloading with example program in Java	PLO1, L3
23	State and show that the way of Objects are passed as arguments and returns objects as	PLO3, L3
	value in Java methods	
24	Write the working of `Object as parameter` with example in Java.	PLO1, L3
25	Discuss the relative merits and demerits of using protected access Vs. private access in	PLO3, L2
	super class	
26	List and explain various access modifiers in Java programming	PLO3, L2
27	Compare nested and inner classes in Java with examples	PLO3, L3
28	Explain command line arguments and variable length arguments in Java with example	PLO3, L3
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<sup>\*</sup> PLO – Program Learning Outcome