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KGiSL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

Internal Exam – I –JUL/2018

CLASS:	: II B.Tech IT	**MAX MARKS**	: 100
SEMESTER:	: III	**DURATION**	: 3:00 Hrs
SUBJECT:	: Object Oriented Programming	**CODE**	: CS8392
		DATE	:

PART – A (10 X 2 = 20 Marks)

I   ANSWER ALL QUESTIONS

1.   Define OOP

2.   What are the four principles?

3.   What is encapsulation?

4.   Write a java program to compute BMI of a person.

5.   What is Constructor?

6.   Give a short note on static members of a class

7.   Write program to store and print odd numbers from 1 to 100 using arrays.

8.   What is inheritance?

9.   Write a short note on final class and final methods.

10. Define abstract classes.

PART – B (5 X 13 = 65 Marks)

II   ANSWER ALL QUESTIONS

11. (a)   (i)   Explain about principles of oops with example **7**

(ii)   Write a java program that receives basic details of students [Name, RollNo, Three Subject Marks] and computes the following [Total and average] **6**

(OR)

(b)   (i)   Give a detailed note on Characteristics of Java **6**

(ii)   Write a java program that receives the employee details [Name, Empno, Basic Salary] from user and compute HRA, TA, GROSS SALARY and display. **7**

12. (a) (i) Describe about constrictor and it's type with proper examples. **13**

(b) (i) Describe about what are the datatypes supported by java with proper examples. **7**

(ii) Explain any 3 operators supported by java with an example. **6**

13. (a) (i) Explain about control flow structures available in by java, **8**

(ii) Write a program to print prime member of give array using for each loop. **4**

(OR)

(b) (i) Describe about importance of packaging and procedures to create and use user defined packages in java. **7**

(ii) Give a short note on access spcifiers in java. **6**

14. (a) (i) Explain about inheritance and it's types with a suitable examples **8**

(ii) Demonstrate dynamic binding with a simple example. **4**

(OR)

(b) (i) Explain in detail about importance of Object Class and its methods. **13**

15. (a) (i) Explain about final class and final methods with suitable examples. **13**

(OR)

(b) (i) Explain about abstract classes and purpose finally method with an example. **13**

PART – C (1 X 15 = 15 Marks)

III ANSWER ALL QUESTIONS

16 (a) Write an interactive [user input based] console calculator that helps to do basic and scientific [sin, cos, tan, log] operations. **15**

(b) Write a java program that manages the banking operations [Add Account, Delete Account, Credit and Debit Transactions] based on the concepts of inheritance. **15**

Signature of Faculty   **Signature of HOD**

********************* *System.out.println*(**"All the Best"**)   *********************