1221 **Code : 15CS42T**

Register Number | | | | | | | | | | |

IV Semester Diploma Examination, Nov./Dec.-2018

OOP WITH JAVA PROGRAMMING

Time : 3 Hours] **[Max. Marks : 100**

Instructions : (1) Answer any **six** full questions from Part – **A**. Each carries **5** marks **(5 × 6 = 30)**.

(2) Answer any **seven** full questions from Part – **B**. Each carries **10** marks **(10 × 7 = 70)**.

PART – A

1. Define the following :
   (a) Data Abstraction
   (b) Data Encapsulation

2. Explain any five features of Java.

3. Define Constructors. Indicate special properties of constructors.

4. Explain any five string methods.

5. With an example, explain accessing of class members.

6. Describe how do you implement interface in different forms.

7. Discuss how to create and implement a package.

8. Explain yield(), sleep() and stop() methods of a thread.

9. With syntax, explain exception handling technique.

PART – B

10. With a neat diagram, explain the structure of Java program.

11. Explain class definition with fields and methods declarations.

12. Write a program to illustrate method overloading.

13. With an example, explain how to support multiple inheritance.

14. Discuss API packages of Java.

15. Write a program to use inbuilt packages to demonstrate basic arithmetic operators.

16. Explain the different methods of creating threads.

17. Write a program to create a threads using a thread class.

18. Write a program to use multiple catch block statement.

19. Define exception and explain finally block. When and how it is used with a suitable example.