1219

Code : 15CS42T

IV Semester Diploma Examination, April/May-2018

OOP WITH JAVA

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

Note :   (i)   Answer any **six** from Part – **A**.

        (ii)   Answer any **seven** from Part – **B**.

PART – A

6 × 5 = 30

Answer any **six** questions. Each carries **five** marks.

1. Explain basic concepts of OOP.   5

2. Explain the general syntax of class definition in Java. Give example.   5

3. Explain Java virtual machine.   5

4. Write a note on Wrapper classes.   5

5. Differentiate between class and interface.   5

6. Explain how to add a class to a package.   5

7. Write a program to implement the concept of thread by implementing runnable interface.   5

8. List different types of compile-time errors and run-time errors.   5

9. Explain user defined exceptions with example.   5

PART – B

Answer any **seven** questions. Each carries **ten** marks.

10. Explain java program structure with an example.   **10**

11. Define Inheritance. Explain different types of inheritances in Java.   **10**

12. (a) Explain constructors.   **5**
     (b) Write a program to implement method overloading.   **5**

13. Define string. Explain any four string handling functions with syntax and example.   **10**

14. Write a java program to implement the use of multiple inheritance using interface.   **10**

15. List and explain Java API packages. Mention uses of each package.   **10**

16. How to create packages in Java ? Explain with a suitable example.   **10**

17. Explain life cycle of a thread.   **10**

18. Write a program to illustrate the use of yield( ), stop( ) and sleep( ) methods for threads in java.   **10**

19. (a) Explain the general syntax of exception handling.   **5**
     (b) Write a program to implement the use of multiple catch( ) statements.   **5**