Question Paper Code: ACS552

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech VI Semester End Examinations (Regular), November– 2020

Regulation: IARE–R16

JAVA PROGRAMMING

Time: 2 Hours   (ECE)   **Max Marks: 70**

Answer any Four Questions from Part A
Answer any Five Questions from Part B

PART – A

1. List the steps involved in creating and executing a java program? **[5M]**

2. Explain final keyword with all its usages. Support explanation with a program. **[5M]**

3. Differentiate between exceptions, runtime errors and compile time errors **[5M]**

4. How can java implement multiple inheritance? **[5M]**

5. List out the various methods of reader and writer abstract classes? **[5M]**

6. How constructors are called? Explain parameterized constructors. **[5M]**

7. When to use runnable vs thread in java? **[5M]**

8. Differentiate between classes and interfaces in java programming. **[5M]**

PART – B

9. Design a program which will accept five cities from the user and sort them in java. **[10M]**

10. Explain different primitive data types? Write a java program to demonstrate the boolean type. **[10M]**

11. Describe polymorphism and method overriding. Demonstrate dynamic binding with an example. **[10M]**

12. Write a java program to implement multilevel inheritance by applying various access controls to its data members and methods. **[10M]**

13. Differenciate thread and process in java? How to implement thread in java? **[10M]**

14. Differentiate throw and throws keyword in Java? Write a program to throw a user-defined exception "String Mismatch Exception", if two strings are not equal (ignore the case). **[10M]**

15. Write a java program to create a package and use this package's classes in another program. **[10M]**

16. What is package? Explain java.lang package usage in java with suitable example. **[10M]**

17. Write a java program to append a string in an existing file using filewriter method. **[10M]**

18. Explain the steps involved in the process of connecting to a database and execute a query to retrieve the data from database. **[10M]**

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