Question Paper Code : X 60385

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Fifth Semester

Computer Science and Engineering

CS 2305/CS 55/10144 CS 506 – PROGRAMMING PARADIGMS/PROGRAMMING PARADIGMS WITH JAVA

(Regulations 2008/2010)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. Mention the features of JAVA.

2. What is meant by parameter passing constructors ? Give example.

3. What is the use of final keyword ?

4. Define Interface and write the syntax of the interface.

5. Define frame.

6. What is adapter class ?

7. What do you mean by reflection ?

8. What are stack trace elements ?

9. State the properties of thread.

10. Why is synchronization required in thread ?

PART – B   (5×16=80 Marks)

11. a) Write a java program to sort ten names in descending order.

(OR)

   b) Explain string handling classes in Java with examples.

12. a) i) What is meant by interface ? How it is declared and implemented in JAVA ? Give example. **(12)**

    ii) Write note on final keyword. **(4)**

(OR)

  b) i) Discuss the object and inner classes with example. **(8)**

    ii) Explain the concept of abstract class with example. **(8)**

13. a) Write in detail about graphic programming. **(16)**

(OR)

  b) Write a Java program to illustrate mouse events. **(16)**

14. a) i) Explain about generic code and the virtual machine. **(8)**

    ii) What is exception ? How to throw an exception ? Give an example. **(8)**

(OR)

  b) i) Explain about the reflection and generics. Give an example. **(8)**

    ii) What is finally class ? How to catching exceptions ? Write an example. **(8)**

15. a) What is thread ? Discuss the types of threads. Write a program for reader and writer problem using thread in JAVA.

(OR)

  b) Explain the two types of thread implementation supported by JAVA. Give examples. Write note on interrupting threads.

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