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**Question Paper Code : 31310**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Fifth Semester

Computer Science and Engineering

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

(Regulation 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. Define the term reflection.
4. What is meant by object cloning?
5. Write note on AWT in JAVA.
6. State the features of Swing.
7. What is meant by generic classes? Give example.
8. Define the term virtual machine.
9. Write the life cycle of thread.
10. What is meant by event-driven programming?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Describe the concept of OOP. (5)  
(ii) What is meant by overriding method? Give example. (5)  
(iii) Write a JAVA program to reverse the given number. (6)

Or

- (b) (i) What is meant by package? How it is created and implemented in JAVA. (8)  
(ii) Write a JAVA program to find the smallest number in the given list. (8)

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) (i) Explain the basic of event handling. (4)  
(ii) Discuss the adapter classes using example. (6)  
(iii) Write a simple program to demonstrate the mouse events. (6)

Or

- (b) What is Layout management? State the various types of layout supported by JAVA. Which layout is default one? Discuss the components of Swing.
14. (a) Mention the motivations of generic programming. What is an assertions in JAVA? Why use assertions? Discuss the types of assertions. Give example.

Or

- (b) What is meant by exceptions? Why it is needed? Describe the exception hierarchy. Write note on Stack Trace Elements. Give example.
15. (a) What is meant by concurrent programming? Define thread. Discuss the two ways of implementing thread using example.

Or

- (b) Discuss the concept of synchronization in thread and develop a JAVA code for reader/writer problem.