

## **Paper 4 : PROGRAMMING IN JAVA - 2012**

**Note :** Attempt any two parts from each question. All questions carry equal marks.

### **UNIT - 1**

1. (a) Explain various data types and control structures in Java.  
(b) Discuss String and String Buffer classes by giving an example.  
(c) Write a program in JAVA that takes as input a string and print them in reverse order.

### **UNIT - 2**

2. (a) What is Inheritance in Java ? Explain by giving an example.  
(b) What are the package in Java ? Explain.  
(c) Define and explain abstract and final classes.

### **UNIT - 3**

3. (a) Define exception. Write a program to show the divide by zero exception.  
(b) Explain the process of Suspending, resuming and stopping thread.  
(c) Discuss Java thread model in detail.

### **UNIT - 4**

4. (a) What is stream ? Define byte and character stream and predefined streams.  
(b) Write down the procedure of setting the JDBC connectivity with backend databases.  
(c) Write a program to show the process of reading data from file.

### **UNIT - 5**

5. (a) What is applet ? Write the process of developing single applets ?  
(b) Discuss the delegation event model in detail.  
(c) Explain AWT components in detail.