

Reg No.



**MANIPAL INSTITUTE OF TECHNOLOGY**  
**(Constituent Institute of MAHE- Deemed University)**  
MANIPAL-576104

**FOURTH SEMESTER B.E. DEGREE END SEMESTER EXAMINATION**  
**MAY- 2006**

**SUBJECT: EVENT DRIVEN PROGRAMMING WITH JAVA (CSE 210)**  
**(REVISED CREDIT SYSTEM)**

**17-05-2006**

**TIME: 3 HOURS**

**MAX.MARKS: 50**

**Instructions to Candidates**

- Answer **any five** full questions.
- Missing data can be suitably assumed

1.a) Name the main two types of java programs you have studied. Give a small example for each type and explain.

b) Why are exceptions required? Explain the following exception keywords with an example.

i) finally

ii) throws

5+5

2.a) With an example explain what is dynamic initialization of variables in java.

b) List automatic type promotion rules for expressions, in java with suitable example.

c) What are interfaces? What are abstract classes? Compare them.

2+3+5

3 a) Name the byte stream and char stream base classes of java input/output package.

Explain any one of the char stream class, with an example program.

b) Explain the significance of package and import statements with an example program.

5+5

4.a) Define DeadLock. Give an example program for deadlock.

b) Name and explain an Applet's Life cycle methods.

5+5

5.a) Write an application program to generate a frame window and listen for mouse events in that window by displaying x,y coordinates and type of event occurred in the status bar of the frame.

b) Design an applet to behave like a color chooser consisting of one textfield , one choice list with four colour choices and one button namely submit, to look something like this.

The diagram shows a rectangular frame representing an applet. Inside the frame, at the top, is a horizontal textfield. Below the textfield is a choice list (a vertical stack of four buttons). The first button is labeled 'Red' and has a small downward-pointing arrow on its right side. The other three buttons are labeled 'White', 'Magenta', and 'Black' from top to bottom. Below the choice list is a rectangular button labeled 'submit'.

When the submit button is clicked after entering text and choosing color, the applet should display a frame containing the entered text with the chosen color displayed at center. The background colour of the frame should be set as cyan.

5+5

6.a) Define the following.

- i) Event Source    ii) EventListener    iii) Dynamic method dispatch    iv) JDBC
- v) ODBC

b) List advantages of Java beans.

5+5

7. Write short note on the following

- i) JTable    ii) PreparedStatement
- iii) Servlets

2+4+4