



MU-2011133

Seat No. _____

M. Sc. (IT) (Sem. II) Examination

April / May – 2012

EMY - 2023 : Core Java

(Ele. - 1)

Time : 3 Hours]

[Total Marks : 70

- 1 Attempt any four of the following : 20
- (i) What is the difference between throw and throws keyword? Explain with example.
 - (ii) Explain use of <param> tag to pass parameters to applet taking suitable example.
 - (iii) Differentiate between characterstream and bytestream. Write a Java program to read one text file and display its content on console.
 - (iv) Explain any one of the following component taking suitable example.
 - (a) JTree
 - (b) JTable
 - (v) What is the benefit of creating package in java? Explain creating and importing package with suitable example.
- 2 Attempt any four of the following : 20
- (i) Explain nested and inner class taking suitable example.
 - (ii) Differentiate : application and applet. Write lifecycle of applet.
 - (iii) Explain with example to use “final” keyword to prevent overriding.
 - (iv) Explain any two methods of thread from following with example.
 - (a) sleep ()
 - (b) join ()
 - (c) setPriority ()
 - (v) Explain event delegation model of Java for event handling.
- 3 Answer any three of the following : 15
- (i) Differentiate : AWT controls Vs Swing controls.
 - (ii) What is thread? Explain lifecycle of thread in detail.
 - (iii) List different layout managers. Explain BorderLayout with example.

(iv) Differentiate : String and StringBuffer. Explain any two method of StringBuffer class with example.

4 Attempt any three of the following :

15

- (i) List buzzwords of Java. Explain any two buzzwords in detail.
 - (ii) Write applet code that will have two buttons "Start" and "Stop", "Start" button should move one string from left to right and bounce back from right to left, a kind of marquee effect. "Stop" button should stop the movement.
 - (iii) Differentiate : Abstract class and Interface. Demonstrate with example how to create interface in java ?
 - (iv) Write a code to create a JFrame which accepts username and password from the user, and have "Validate" button to validate inputted values against predefined values. Display message in JLabel if user is valid otherwise invalid user. Design the interface using Swing components.
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RP-2011133

Seat No. _____

M. Sc. (IT & CA) (Sem. II) Examination

June - 2011

EMY - 2023 : Core Java (Elective - I)

Time : 3 Hours]

[Total Marks : 70

- 1 Attempt any **five** of the following : 15
- (i) Briefly explain final key word with respect to inheritance.
 - (ii) What is monitor ? Explain in brief.
 - (iii) What is AWT ? Explain checkbox group awt control.
 - (iv) Briefly explain JButton.
 - (v) Differentiate : Overloading Vs Overriding.
 - (vi) Briefly explain abstract class.
- 2 Attempt any **four** of the following : 20
- (i) Write short note on stringtokenizer.
 - (ii) What is package ? Explain the access specifier with respect to package.
 - (iii) Briefly describe object class.
 - (iv) What is layout ? List the different layout manager supported by Java. Explain any one of them.
 - (v) What is event ? Explain event class hierarchy in depth.
- 3 Attempt any **two** of the following : 15
- (i) What is inheritance ? List and explain the different types of inheritance supported by Java.
 - (ii) What is OOP ? List and explain the different features of OOP.
 - (iii) What is exception ? List and explain different key words used by exception.
- 4 Attempt any **two** of the following : 20
- (i) Write a Java swing code that will open a student.mdb file, which consists stud (no, name, sex) table. Read the one by one record and put these record as a node in jtree under Male and Female header.
 - (ii) What is applet ? Explain the life cycle of applet. Create an applet that will create a frame window form the applet window.
 - (iii) Create a Java program that will create a tiny editor with menu. The editor gives the facility to open, close, save and exit option in menu and also operate the same.

Saurashtra University
M. Sc. (IT & CA) Semester - II
Paper - EMY2023: Core Java

[Total time: 3 hours]

[Maximum marks: 70]

- [15]
- Q. 1 Attempt any five of the following:
- (1) Explain the use of super key word in Java in brief.
 - (2) What is garbage collection. Explain it in brief.
 - (3) What is inner class? Explain it with suitable example.
 - (4) Explain the utility of CLASSPATH with respect to package.
 - (5) Explain finally block.
 - (6) Differentiate: Method overloading Vs Method Overriding
- [30]
- Q. 2 Attempt any six of the following:
- (1) What is wrapper class? List the different wrapper classes available in Java and explain any one of them with suitable example.
 - (2) Write a Java code that will copy a text file to the another file.
 - (3) Write short note on Object class.
 - (4) What is synchronization? Explain synchronize statement with suitable example.
 - (5) Explain File class and its utility.
 - (6) What is sources of event in event delegation model? List the different sources of event. Explain any one of them.
 - (7) Write short note on stream tokenizer.
- [15]
- Q. 3 Attempt any two of the following:
- (1) What is an Exception? List the type of exception. Also write a program that opens a text file and if file does not exists then it fires the exception as file not found and give the appropriate message.
 - (2) What is layout? List the different layout manager supported by Java. Also explain any one them with a suitable example.
 - (3) What is event delegation model? List the different event listener interface available in Java. Explain any one of them with its all method. Justify your discussion with the help of suitable example.
- [10]
- Q. 4 Attempt any one of the following:
- (1) Write a Java swing program that will create a menu of your choice. Your menu bar consists of three main menu and under each menu there are four sub option. Your menu may have submenu and separator.
 - (2) Write a Java swing applet that has a text box, a combo box, add button, remove button and exit button. Clicking on add, the content of the text box is appended to the combobox and text box becomes clear. Clicking on the remove button, the current selected option from the combo box will be deleted and clicking on exit will terminate the application.