UKA TARSADIA UNIVERSITY

BCA/Integrated M.Sc. (IT) (Semester 5)
030010503(2013-14)/060010503(2013-14)
Advanced Java

Date :29/05/2017   Time :1:30PM- 4:30PM
                                                     Max. Marks:60

Instructions :
1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Draw diagrams/figures whenever necessary.
5. Figures to the right indicate full marks allocated to that question.
6. Follow usual meaning of notations/abbreviations.

SECTION - 1

Q 1 A) Answer the following.   [4]

I) Define Event Source.

II) What is super class for all AWT events?

III) What is multicasting the event?

IV) Write one usage of Map.

Q 1 B) Answer the following in brief. (Any 3)   [6]

I) Write two key difference between List and ArrayList.

II) List basic interfaces provided by Java Collection Framework. Write one key difference between Set and List.

III) What is unicasting? How to register listener for unicasting event? Give one example.

IV) What is Event Listener? How to register Event Listener?

Q 2 Answer the following.   [10]

A) Write an interactive program that reads a statement from user input and prints how many words it has.

OR

A) Write a program that creates a user-define class called Student containing members such as student id, name, semester studying and subject selected. There are 60 students in a particular semester; whenever user create object of students stores them in a List.

B) Write a program to implement a class that checks whether a given number is a prime using both the Thread class and Runnable interface.

OR

B) Write a program which accept book name from the user and display one by one character of that book name on every 3 seconds of interval.

Q 3 Answer the following in detail. (Any 2)   [10]

I) Discuss Event classes and Adapter classes in detail.

II) Explain diffrent ways to create thread in java.

III) Describe AWT windows fundamental with hierarchy.

SECTION - 2

Q 4 A) Answer the following.   [4]

I) Which method is used to add component in to a window?

II) Write one usage of dialog box.

III) Define Layout out manager.

IV) Define Socket.

Q 4 B) Answer the following in brief. (Any 3)   [6]

I) Write two key difference between Modal dialog and Modeless dialog.

II) Which method is used to set menu bar? Write a code which will set the menu bar.[Assume that "mb" is an object of MenuBar.]

III) How we can create FileDialog? Write a code to create it.

IV) Which method is used to send and receive packet using datagram? Write its syntax.

Q 5 Answer the following.   [10]

A) Write a code which will create one tab pane, in which one tab will display employee personal information and other will display his/her professional information.

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OR
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A) Write a code which will open new frame whenever user click on submit button.[Use listener.]

B) Write a code which will create one parent node "Course" in which there are two child node one is "Graduate" and another is "Post Graduate"; In first child node there are three sub child node " B.Sc, B.C.A and "M.B.B.S" in second child node there are three sub child "M.Sc, M.C.A and M.D", display a tree structure of it.

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OR
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B) Design a customer registration form for bank using Swing controls.

Q 6 Answer the following in detail. (Any 2)   [10]

I) What is event handling? Demonstrate event handling with suitable example.

II) Explain ServerSocket class and Socket class with essential methods.

III) Explain DatagramSocket class in detail. And also provide four benefits of DatagramSocket class.