**SET A**

**Group A [10x1=10]**

1. How can you make a frame that cannot be resized at runtime?
2. Differentiate between EXIT\_ON\_CLOSE and DISPOSE\_ON\_CLOSE.
3. What is a layout manager?
4. Name the two methods defined inside FocusListener interface.
5. Which events are generated when item in a JComboBox is clicked?
6. Define event and event source.
7. Which class is used to group radio buttons in swing?
8. Which method is used to set the number of items visible in a JComboBox?
9. Differentiate between adapter class and listener interface.
10. Which event is generated when item of JList is clicked? Which package contains that event class?

**Group B [5x4=20]**

1. Create a swing interface that contains one combo box and a text field. If the item of combo box is selected, it should be displayed in the text field.
2. “Swing is built on AWT”. Justify the statement. Draw a figure of AWT components hierarchy.
3. Differentiate between AWT and swing.
4. Write a program to design a menu based application. [No need to handle event]
5. Mention any 4 event classes along with when those events are generated.

**Group C [2x5=10]**

1. Create a GUI that contains 3 text fields, 3 labels and 2 buttons (add, subtract). When the buttons are clicked addition and subtraction should be performed.
2. Explain BorderLayout and write a program to show its use.

**SET B**

**Group A [10x1=10]**

1. What are the differences between panel and frame?
2. Differentiate between EXIT\_ON\_CLOSE and DISPOSE\_ON\_CLOSE.
3. What is a layout manager?
4. How is a JList different from JComboBox?
5. Which event is generated when enter key is pressed in a text field?
6. Define event and event source.
7. Which class is used to group radio buttons in swing?
8. Which method is used to set the number of items visible in a JList?
9. Differentiate between adapter class and listener interface.
10. Which event is generated when item of JList is clicked? Which package contains that event class?

**Group B [5x4=20]**

1. Write a program to create a closable AWT frame.
2. “Swing is built on AWT”. Justify the statement. Draw a figure of AWT components hierarchy.
3. Differentiate between AWT and swing.
4. Write a program to design a menu based application. [No need to handle event]
5. Mention any 4 listener interface along with their abstract methods.

**Group C [2x5=10]**

1. What is a dialog box? Explain. Write a program to create a modal dialog box.
2. Explain GridLayout and write a program to show its use.