



Addis Ababa Science and Technology University

**College of Electrical and Mechanical Engineering
Department of Software Engineering**

**Advanced Programming Test
Weight 15%**

N.B

- **Time allowed for this 1:00**
- **Switch of your mobile phone.**
- Remember that talking is not allowed at any time in the exam hall.
- Do not turn over exam papers until told to do so.
- Write your answer on the blank space below each question.
- **Your answer should be clear and full answer (To the point)**
- **Invalid answer have no value**
- **The paper have two parts (Part I and Part II)**

For Student

Name	ID

Part I : Give Short Answers for the following Question. You have to answer all question in this part.

1. Compare and contrast the object programming language and object based programming language? (2.5 points)
2. Can there be any abstract method without abstract class? (1.5 points)
3. What is the default value of the local variables in java?(1 point)
4. Which is the container that doesn't contain title bar and MenuBars but it can have other components like button, textfield etc? (1 point)
 - a. Window
 - b. Frame
 - c. Panel
 - d. Container
 - e. All
 - f. Only c and d
5. Write the two ways that used to create a Frame.(2 points)
6. Which of these methods can be used to know which key is pressed ?(1point)
 - a. getActionEvent()
 - b. getActionKey()
 - c. getModifier()
 - d. getKey()
 - e. getKeyPress()

**Part II : There are 5 questions from those select any 3 question and do to score 6 points.
The rest has no value.**

1. Discuss Event-driven programming? (2 points)
2. What is the difference between lightweight components, and heavyweight components? (2 points)
3. The GUI API contains classes that can be classified into three groups : List those class (2 points)
4. A top-level window (that is, a window that is not contained inside another window) is _____ (1point). The component that creates an event and fires it is called the _____ (1 point)
5. _____ and _____ are the two important aspects in event manipulation (2points)