**A1**

**Questions**

**1.** How do the declarations look in the GIMPLE? Specifically, what

happens to multiple variables declared and initialized on the same

line? What happens to global declaration [int Z]?

**Ans:** The Declarations are done one after the another and the global declaration is not initialised first but according to its expression its value is stored after the equation is processed.

**2.** How are complex expressions such as [c = a \* b + 25] broken down?

Can you determine a rule as to when temporary variables will be introduced?

**Ans:** Complex Variables are broken and processed as per their precedence and the sub-processed value is stored into temporary variables which are initialised along with the processing of a sub-part.

**3.** How are floats/doubles represented in GIMPLE? What happens when a

float/double is assigned to an integer in [Z = r]?

**Ans:** Floats/doubles are represented using complex form(\_e+\_) and when a float/double is assigned to an Integer [i] is taken that is the integral part is assigned to it.

**4.** How are reads/writes to the global variable Z performed? Why is

there a temporary introduced for the statement [Z = Z + 1] but not

for the statements [q = Z] or [Z = p]?

**Ans:** When an arithmetic operation is performed the output has to be stored for further process or for recalling the variable whereas for statements the memory location have already been assigned initially.