- (a) Summarise what is meant by three-address code and discuss the difference between triple and quad notations. [5](b) Consider the following code fragment:
- a = 45 * a + 2 * (a + b):

Translate it into three-address code and explain informally the translation pro-[6]cess.

- Explain and illustrate the translation of multidimensional arrays, in particular:
- i. The processing of the declaration of an array, such as in Java or C. ii. The translation of an access to an array element into some intermediate representation, assuming a uni-dimensional storage.

[7]