

1) A file named 'Persons' contains a sequence of records about persons that are members of a club.

a) What is the following pseudocode doing:

```
{
    Open file Persons
    while (end-of-file of Persons is not reached)
    {
        n = next record
        if field 'town' in n = 'Valletta'
            then display record;
    }
}
```

[2 marks]

b) Write pseudocode that would display the names of all persons that were born before 1980. [3 marks]

2) The CPU holds a number of registers.

a) Explain the role of the registers CIR and MAR. [4 marks]

b) What is the fetch-execute cycle? [2 marks]