## Modula-3

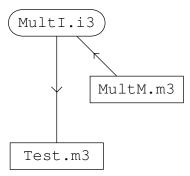
In the context of Modula-3, define the following: *compilation unit*, INTERFACE, MODULE, IMPORT and EXPORT. [5 marks]

The following module, which is in the file Test.m3, has been written to test two procedures, Twice and Thrice, which are imported through the interface MultI (in the file MultI.i3) from the module MultM (in the file MultM.m3).

```
MODULE Test EXPORTS Main;
IMPORT MultI;
BEGIN
MultI.Twice ('A')
MultI.Thrice ('A')
END Test.
```

The procedures Twice and Thrice are intended simply to output the single character, presented as parameter, twice and three times respectively. Write a suitable interface MultI and a suitable module MultM. [8 marks]

Working in terms of files containing source code, the relationships between the module Test, the interface MultI and the module MultM may be represented by the following diagram:



In this representation, a box with rounded ends represents an interface and a rectangular box represents a module. The arrows represent the directions of imports and exports. Augment this diagram to include the file containing the interface Main and any other interfaces and modules used directly or indirectly by the interface and module you have written. [7 marks]