

QUESTION 1.

11



5 (a) A program calculates the exam grade awarded from a mark input by the user. The program is written as a function `CalculateGrade`.

The function:

- has a single parameter `Mark` of `INTEGER` data type
- returns the grade awarded `Grade` of `STRING` data type

The logic for calculating the grade is as follows:

Mark	Grade
Under 40	FAIL
40 and over and under 55	PASS
55 and over and under 70	MERIT
70 and over	DISTINCTION

The programmer designs the following table for test data:

Mark	Description	Expected result (Grade)
	Normal	
	Abnormal	
	Extreme/Boundary	

(i) Complete the table above. [3]

(ii) State why this table design is suitable for black box testing.

.....
.....[1]

