Name: Class: Mark:

1. The following is a function:

 length ← LENGTH(score)

 maxvalue ← score[1]

 FOR i ← 1 TO length

 IF score[i] > maxvalue
 THEN
 maxvalue ← score[i]

 ENDIF

 NEXT i

 RETURN maxvalue

 ENDSUBROUTINE

(a) Write a statement to call this function to find the maximum value in an array named **NumberOfViewers** [1]

(b) Give the name of a parameter used by this function. [1]

(c) Give an example of a local variable. [1]

(d) State the data type of **score**. [1]

(e) Give an example from this function of:

(i) an assignment statement [1]

(ii) iteration [1]

(iii) selection [1]

2. (a) Write a program which asks the user to enter their favourite colour.

 The program then calls a procedure named colour which takes the entered colour
as an input. The procedure will then output one of the following comments depending
on the colour chosen: [5]

|  |  |
| --- | --- |
| Colour | Output |
| black | Night |
| blue | Sky |
| red | Danger |
| All other colours entered | Don’t know |

|  |
| --- |
|  |

(b) Explain why this program would be better written using a function. [2]

[Total 14 marks]