

questions or nay of them as im struggling with understanding the VBA concept and have an exam in it next week. Or anyone mo

less than 10

- Colour is to be set to 2 if LandCover is less than 10 but greater than or equal to 4 and lope is less than 10
- Colour is to be set to 3 if Slope is greater than 10
- (13 marks)

b/ When passing arguments to a sub routine what do the terms passed by address and passed by value mean? (5 marks)

c/ In order to georectify a point given as x,y coordinates the points are represented by a vector the points are multiplied by a correction matrix and a translation vector added to the result.
Write the VBA commands to place the two raw coordinates into the array Coord(2) and the four correction parameters into the array M(2,2) (7 marks)

Q4/

As part of a statistical analysis of temperature data a subroutine is required to return the largest and smallest value of an array of a given length.

If the calling line is:

```
CALL BigLittle(A, Length, Max, Min)
```

Write the required subroutine where A is the array of temperature data, Length the number of temperature records to be searched, and Max and Min the returned values. (25 marks)

Q5/

When using VBA with excel it is important to be able to read and write to the excel spreadsheet. Write VBA commands to perform the following tasks:

a/ Place in the variable X the number in the cell A4 (4 marks)

b/ Place in the cell A7 the text "Hello world" (4 marks)

c/ Place a message box on the screen giving the message contained in the string variable, Prompt\$ (4 marks)

d/ Read the area designated by the string variable Area\$ into a one dimensional array called Input() (4 marks)

e/ Read the 5 column and 3 row of the currently active spreadsheet into the array element A(2,4) (4 marks)

f/ Read the value in the cell A9 from worksheet, sheet1 into the

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variable, Step (5 marks)

Q6/

The VBA code in appendix A was written by a not very good programmer to sort an array of numbers into ascending order.

a/ The programmer forgot to document the code to explain how it works. Write an explanation of how the code works and explain exactly what it is doing. (20 marks)

b/ The programmer also made an error in writing the program. Identify this error (5 marks)

Appendix A Candidate number _____

```
Sub test()  
Dim data(10) As Single  
Dim n As Integer
```

```
' data is acquired here
```

```
Call sort(data, n)  
End Sub
```

```
Sub sort(A, length)  
Dim I, J As Integer  
Dim X As Single  
For i = 1 To length  
For j = 1 To (length - i)  
If A(j) < A(j + 1) Then  
x = A(j + 1)  
A(j + 1) = A(j)  
A(j) = x  
End If  
Next j  
Next i
```

```
End Sub
```

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