Programming Revision Questions

Total marks (22)

1. **Describe** the *three* types of test data that is used to test a program and give an example of each. (6)

2. If age >=18 then

   txtdisplay.text = "Too old!"

   Else

   txtdisplay.text = "Enter the disco!"

   End If

   What message is displayed when 18 is entered? (1)

3. **Describe** *two* ways of making a program readable (2)

4. For counter = 1 to 6

   txtdisplay.text = txtdisplay.text & "Computing is Fun"

   Next counter

   Describe what the above code does (1)

5. Read the following code carefully (see next page):

Line

```
1    Dim test_score As Integer

2    Dim counter As Integer

3    Dim noofpupils As Integer

4    Dim subject as String


5    Private Sub Start_Click()

6    counter = 0

7    subject = InputBox("Please type in the subject
     this test is for")

8    txtdisplay.text =  "Here are the test scores you
     entered for the 12 pupils:"


9    For noofpupils = 1 To 12

10        test_score = InputBox("Please enter the
          test score of pupil " & noofpupils)

11        txtdisplay.text = txtdisplay.text & "You
          have entered the test score of pupil " &
          noofpupils & " as " & test_score

12        If test_score > 40 Then

13              counter = counter + 1

14        End If

15   Next

16  txtdisplay.text= txtdisplay.text "The number of
pupils who scored over 40 in the " & subject & " test
is " & counter
```

a. Explain what happens when you run the above code. (4)

b. Describe the purpose of the expression in line 6. (1)

c. Describe the purpose of the *if* construct in lines 12–14. (2)

d. Describe the purpose of the *for..next* construct in lines 9–15. (3)

e. State which of the following describes the purpose of setting the variable "counter" as an integer in line 2: (1)

- ♦ 1 "counter" will store text
- ♦ 2 "counter" will be set to Yes or No
- ♦ 3 "counter" will store whole numbers
- ♦ 4 "counter" will store decimal numbers

f. Select which of the following describes the purpose of setting the variable "subject" as a string in line 4: (1)

- ♦ 1 "subject" will store text
- ♦ 2 "subject" will be set to Yes or No
- ♦ 3 "subject" will store whole numbers
- ♦ 4 "subject" will store decimal numbers