11. (a) Rewrite the following fragment of code using the control structures below.

```
For count  :=  1 to 10  DO
Begin
      read  (count)  ;

End;
```

(i) While loop **(4 marks)**

(ii) Repeat Loop **(4 marks)**

(b) Complete the following two sentences by replacing the letters A, B, C, D and E with the appropriate programming terms.

Shadwayne ___(A)___ the program to see if it was grammatically correct, meaning no ___(B)___ errors, that it did what it was intended to do, meaning no ___(C)___ errors, and that it produced some results, meaning no ___(D)___ errors. If there were errors, he would then ___(E)___ the program to locate and correct these errors. **(5 marks)**

(c) THREE of the following statements describe external documentation. Identify them and write the corresponding numbers in your answer booklet.

D1: Includes frequently asked questions

D2: Makes it easier to read and understand the program

D3: States the version of the program and the installation procedure

D4: Suggests how users should use the program such as starting or exiting the program

D5: Use of indentation **(2 marks)**

Total 15 marks

CSEC Information Technology

Paper 02

Question 11

The responses in these two exemplars showed clearly that the candidates had a clear understanding of this aspect of the syllabus. They were therefore awarded full marks.

Comments

For Part (a), both candidates wrote programs which showed the correct use of the Loop constructs namely

1. accurate initialization of variable
2. precise loop condition
3. correct placement of increment statement within the loop.

For Part (b), programming errors were properly identified.

For Part (c), external documentation was accurately selected.

Exemplar #1

11. a) i) While loop

```
count := 1;
While count <= 10 Do
Begin
    read (count);
    count := count + 1;
End;
```

ii) Repeat until loop

```
count := 1;
Repeat
Begin
    read (count);
    count := count + 1;
End;
UNTIL count > 10;
```

Write the question number in this column.

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11b) A - compiled

B - syntax

C - logic

D - run-time

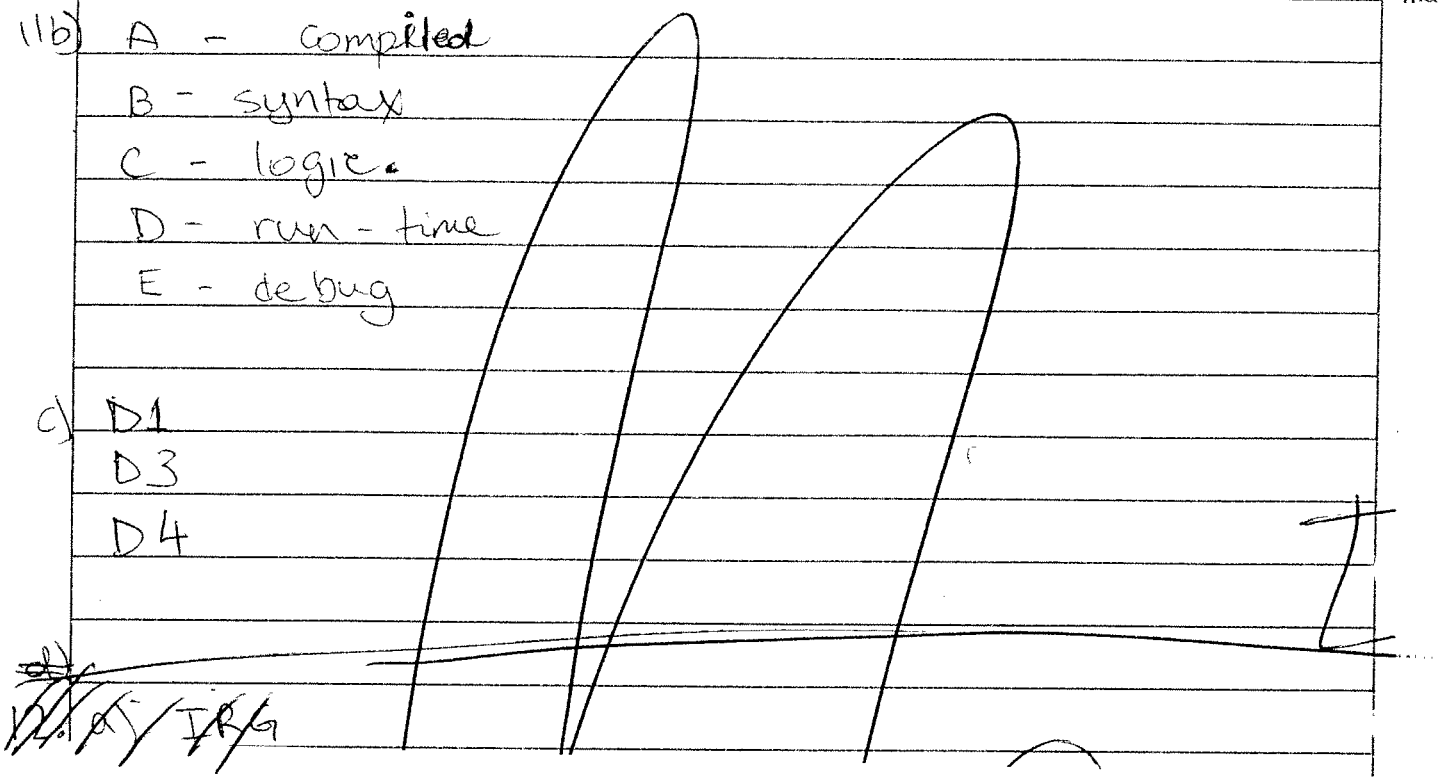
E - debug

c) D1

D3

D4

d) ~~D1 D3 D4~~



Exemplar #2

(c)

Question 11

(a) (i)

```
count:=1;
WHILE count <=10 DO
    Begin
        read(count);
        count:= count+1;
    End;
```

(ii)

```
count:=1;
REPEAT
  Begin
    read(count);
    count:= count+1;
  End;
UNTIL count >10;
```

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11. (b) A - ~~compiled~~ run

B - syntax

C - logic

D - run-time

E - debug

(c) D1, D3, D4.