**KABETE NATIONAL POLYTECHNIC**

**CAT DICT 17 s 2nd TERM**

**I HOUR**

**STRUCTURED PROGRAMMING**

(1) What is meant by program portability?

Why are low-level languages not considered to be portable? (2 marks)

(2) Write the output of K in each of the following Pascal statements

1. K: = Trunc (45.778);
2. K: = succ(‘b’);
3. K: = Pred (5)
4. K: = abs (-5);
5. K: = Round (3.6);
6. Ord(‘A’) ( 3 Marks)

3) State three types of high level programming languages (3 Marks)

4) The following table shows the relationship between the student score range and grades.

**MARKS GRADE**

80 to 100 A

70 to 79 B

60 to 69 C

50 to 59 D

0 to 50 F

Write a program using ***nested.. if*** statement that will prompt for marks and then display the corresponding grade. [6 Marks]

5) State **Three** rules of identifiers (3 Marks)

6) Explain the stages of programming (7 Marks)

7) Explain the three types of errors (2 Marks)

8) Write a Pascal program to calculate the area of circle (4 Marks)