TAYLOR'S

SCHOOL OF PRE-UNIVERSITY STUDIES
FOUNDATION PROGRAMMES

WRITTEN TEST 1 (SET 2)
AUGUST 2022 SEMESTER

MODULE NAME	: **INTRODUCTION TO ALGORITHM**
MODULE CODE	: **ITS30705**
TIME	: **1 HOUR**

This paper consists of <u>THREE(3)</u> printed pages.

Student Name   **Student ID**

Tutorial Group

Instruction to Candidates:

1. Answer all questions in the paper and the answers are to be written in either black or dark blue pen.
2. This is a closed book examination, no notes are permitted.
3. Non-programmable electronic calculators may be used.
4. Severe disciplinary action will be taken against those caught violating examination rules.

DO NOT TURN THIS PAGE UNTIL INSTRUCTED TO DO SO.
TO BE RETURNED AT THE END OF THE TEST.

Question 1

Diagram 1 shows the formula to convert radian to degree

$$\text{Degrees} = \left(\frac{180^{0}}{\pi}\right) \times \text{radians}$$

Figure 1: Formula to convert radian to degree

Create a program that convert radian to degree. The program accepts radian as input. The radian is pass to a function that convert radian to degree and return the value to be displayed in the program. (Note: The radian is the standard unit of angular measure, used in many areas of mathematics).

a) The pseudocode of the program   (5 marks)

b) The flowchart of the program   (5 marks)

c) The code of the program   (5 marks)

Question 2

Write a program that accept a number from 1 to 7 and display the name of the day like 1 for Sunday, 2 for Monday and so on.   (5 marks)

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