UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
(TAKE HOME)
SEMESTER I
SESSION 2021/2022

COURSE NAME	:	IOT DEVICES AND APPLICATION
COURSE CODE	:	MET10204
PROGRAMME CODE	:	MET
EXAMINATION DATE	:	JANUARY/ FEBRUARY 2022
DURATION	:	3 HOURS
INSTRUCTION	:	ANSWERS ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **TWO (2)** PAGES

Q1   Develop an IoT application system using Node MCU ESP8266 circuit and ThingSpeak IoT platform. This developed system allows users to control the rotation of the servo motor using the IoT Platform which able to turn a servo motor attached to the Node MCU ESP8266 board to turn on with full speed anticlockwise or turn off. Please refer to the youtube video link included as a guide.

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https://youtu.be/LLTy2SR48BQ

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You are required to provide:

(a) Create schematic diagram of your circuit by applying a servo motor.

<div align="right">(20 Marks)</div>

(b) Create Arduino programming code of the system by applying IoT framework.

<div align="right">(30 Marks)</div>

Q2   Based on your developed system in question **Q1**, Evaluate the performance of the system where you can provide a snapshot or video of your system showing your IoT dashboard and overall system which is functioning as desired.

<div align="right">(50 Marks)</div>

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- END OF QUESTIONS -

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