**CS3237 Introduction to IoT**

**Lab 4**

**ANSWER BOOK**

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**Question 1 (2 MARKS)**

According the Python3 documentation, bytes literals are always prefixed with ‘b’ or ‘B’. The prefix ‘b’ indicates that the object is an instance of bytes type instead o string type. The ‘b’ prefix is there because MQTT is a binary based protocol where the control elements are binary bytes and not text strings. The payload received in the on\_message callback is binary data.

**Question 2 (3 MARKS)**

To remove the prefix ‘b’, the payload needs to be converted from bytes to utf-8 before print it.

**Question 3 (2 marks)**

How I avoid long model load delays is:

**Question 4 (2 mark)**

I do/do not (cancel one) need to freeze weights because:

**Question 5 (4 marks)**

My predict function WITH explanation is:

**Question 6 (4 marks)**

Relevant code with explanation:

**Question 7 (3 marks)**

My sample output:

The accuracy of my classify is:

**TOTAL: \_\_\_\_\_\_\_ / 20**