MATH36206 Quiz8 Module Learning With Errors and Kyber

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**INSTRUCTIONS:** Show all details in your solutions. Marks are given for the level of understanding shown. Good luck!

1. **(5 marks)** Find for the MLWE problem with:

, , , , .

1. **(5 marks)** Encrypt“ 110”using a Kyber cryptosystem with: , ,

, , , and

Show the message polynomial , , and .

