

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF MEDICINE

DIVISION OF BASIC MEDICAL SCIENCES

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY DEGREE

PART I FINAL EXAMINATIONS

MBM 1102 : BIOCHEMISTRY PAPER 1

DATE : JANUARY 2013

TIME : 3 HOURS

Instructions to Candidates

Answer **all** questions

1. Clearly outline the digestion of carbohydrates, highlighting the related malabsorption syndromes. (25)
2. Give an account of the chemiosmotic coupling theory which explains energy generation. According to this theory, what are the effects of uncouplers? (25)
3. Proteins display specific ligand binding. Discuss the different ways by which protein ligand binding can be used to explain the functions of proteins. Give examples in each case. (25)
4. What is mutation? Discuss the **two** (2) main types of mutation. (25)

END OF EXAMINATION

