BINDURA UNIVERSITY OF SCIENCE EDUCATION FACULTY OF SCIENCE AND ENGINEERING DEPARTMENT OF OPTOMETRY

BACHELOR OF SCIENCE HONOURS DEGREE IN OPTOMETRY

CANDIDATE NUMBER:						
OPTC 311: DIAGNOSTIC AND OCUL	AR THER	APEUT	TICS 1	•		
DURATION: 3 HOURS	•				(150	MARKS)
INSTRUCTIONS	(MOV 2	024		
Attempt ALL questions.				*		

SECTION A: Attempt ALL Questions (140 MARKS).

- 1. Discuss the patient care process. [25]
- 2. Using a diagrammatic illustration, give an account of the components of the medical process. [25]
- 3. Discuss the classes of anti-glaucoma drugs, giving drug examples in each case. [25]
- 4. What are antibiotics? Classify antibiotics, write their mechanism of action and give drug examples in each case. [25]
- 5. Discuss in detail about ocular anti-inflammatory drugs. [10]
- 6. Classify Diuretics and name the osmotic diuretic drugs in ocular use. [10]
- 7. List adverse effects of corticosteroids. [10]
- 8. Name four immunosuppressants. [4]
- 9. Name the agents used in ocular diagnosis. [5]
- 10. Which of the anti-tubercular drugs can cause ocular toxicity? [1]

SECTION B: Attempt the following medical case (10 MARKS)

Mr Phiri, a 35-year-old man, is overweight and has a blood pressure of 178/114 mmHg. He smokes 25 cigarettes daily and drinks 28 units of alcohol per week. He has a sedentary occupation. He eats excessive quantities of saturated fat and salt.

Questions:

- 1. How should this patient be managed? [3]
- 2. What pharmacological treatment for blood pressure would be appropriate if non-pharmacological treatment was unsuccessful? [3]
- 3. Mr Phiri subsequently stopped smoking and lost some weight but remained hypertensive. He was treated with atenolol 50 mg daily. His blood pressure fell to 136/84 mmHg but he developed tiredness and bradycardia and complained of erectile impotence. What are the treatment options for Mr Phiri? [4]

END OF PAPER