

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

APPLIED PHYSICS DEPARTMENT

SRA 1214 – HEALTH AND SAFETY AT WORK AND WELFARE SERVICES

BSc HONOURS RADIOGRAPHY PART I

SUPPLEMENTARY EXAMINATION

AUGUST 2013

DURATION: 3 HOURS

ANSWER **ALL** PARTS OF QUESTION **ONE** IN SECTION A AND ANY **THREE** QUESTIONS FROM SECTION B. SECTION A CARRIES 40 MARKS AND SECTION B CARRIES 60 MARKS.

SECTION A

1. (a) Explain the referral system in the health service highlighting the advantages and disadvantages of the system. [5]
- (b) Describe the use of demography in planning for health services [6]
- (c) Discuss the advantages and disadvantages of universal provision of welfare services. [8]
- (d) Identify and explain four key issues regarding provision of medical imaging as indicated in the National Health strategy 2009 – 2013. [8]
- (e) Define ‘communicable disease’ and give three examples of communicable diseases. [5]
- (f) What are the objectives of occupational health programmes? [5]

SECTION B

2. Discuss, using the epidemiological model, the factors that contribute to the occurrence of accidents in the work place. [20]
3. Give an account of the safety features to be considered in designing an imaging facility. [20]

4. (a) Describe the procedures to be followed in the event: [20]
- (i) a needlestick injury. [5]
 - (ii) injury to a member of staff on duty. [5]
 - (iii) injury to a patient in your care. [5]
- (b) Describe the clinical features of early radiation sickness. [5]
5. (a) Explain how hazardous substances are controlled in Zimbabwe. [10]
- (b) Discuss the special occupational hazards in health care settings. [10]
6. Discuss ethical theory and moral principles in health care, give examples. [20]

END OF EXAMINATION