

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

APPLIED PHYSICS DEPARTMENT

SRA 3212 – RADIOGRAPHY PRACTICE AND DIFFERENT USER GROUPS

BSc HONOURS RADIOGRAPHY PART 111

EXAMINATION.

MAY 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. (ai) Explain the A,B and C steps in delivering basic life support to a geriatric patient who collapses during an intravenous urography examination in the imaging department. [6]
- (ii) Evaluate any five desirable features on the equipment suitable for the imaging of paediatric patients. [10]
- (b) Describe the radiation protection measures to be undertaken during ward radiography of a two year old paediatric patient in the burns unit. [6]
- (c) Describe a radiographic technique and an imaging modality ideal to demonstrate each of the following pathological conditions;
 - (i) orchitis and [4]
 - (ii) osteoarthritis, [4]
- d) Evaluate the strategies which an imaging department can use in-order to ensure patient centered care for the mentally challenged and infectious patients. [10]

SECTION B

2. Explain the effects of aging on the following body systems;
 - (i) musculo-skeletal system,

(ii) intergumentary system,

(iii) respiratory system,

(iv) digestive system,

(v) reproductive system.

[5x4 marks]

3. Modernised health delivery system is now moving from the traditional set up focused on the expertise of health professionals to evidence based practice. Justify the three main components considered in evidence based practice in health care.

[3x5marks]

b) Explain why imaging departments require correct and full staffing levels.

[5]

4. Discuss any two theories on the psychological care necessary for paediatric patients attending the imaging department.

[2x6marks]

(b) Compare and contrast the radiological imaging methods for imperforate anus and those of hypertrophic pyloric stenosis.

[8]

5. Discuss the role of well men and well women clinics in modern healthcare set up.

[2x10 marks]

6. "A separate waiting area for the less privileged and ethnic minority patients is necessary in modernised imaging departments." Argue this statement.

[20]

END OF EXAMINATION