NATIONAL UNIVERISTY OF SCIENCE AND TECHOLOGY

APPLIED PHYSICS DEPARTMENT

SUPPLEMENTARY EXAMINATION

SRA 3212 RADIOGRAPHY PRACTICE AND DIFFERENT USER GROUPS

BSc HONOURS RADIOGRAPHY PART 111

AUGUST 2013

DURATION: 3 HOURS

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

SECTION A

1a)	Analyse how patients waiting time in an imaging department may be kept to a minimum.	.[6]
ii)	Evaluate any two sociological aging theories and their relevance during the imaging of	
	elderly patients.	[10]
b)	Explain the psychological preparation necessary for a woman undergoing breast screening	5
	by ultrasound scan and mammography.	[8]
c)	Describe the radiation protection measures to be undertaken during chest radiography of a	L
	pregnant woman.	[6]
e)	Justify the radiographic technique modifications on an old lady with severe osteoarthritis	of
i	the spine.	10]

SECTION B

2)	Explain the modifications necessary during a barium meal examination of a neonatal	
	old male patient with suspected duodenal atresia.	[10]
b)	Explain the factors to be considered when designing an imaging department in a new busy	
	central hospital.	[10]

- 3a) Compare and contrast the radiological imaging methods of trachea-oesophageal fistula in infant patients and those of inguinal hernia in geriatric patients. [10]
- b) Describe any two theories on the psychological care necessary for paediatric patients attending the radiology department. [10]
- Discuss the extended role of radiographers in the imaging department during the management of the following cases;
 - i) a paediatric patient with radiological findings suspicious of non accidental injury,
 - ii) radiography of a raped teenage patient from a case of incest,
 - iii) a less priviledged homeless man involved in a road traffic accident and
 - iv) a hemaphrodite patient for a hysterosalpingogram examination. [4x5marks]
- Explain the measures that can be taken to make an imaging department suitable for the blind and partially blind patients. [10]
- ii) Discuss the necessity of an imaging department to have correct full staffing levels. [10]
- 6. Evaluate the relevance of any 4 aging theories to the imaging of geriatric patients. [4x5marks]