

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

APPLIED PHYSICS DEPARTMENT

SRA – 3103 REPRODUCTIVE SYSTEM

BSc HONOURS PART I: MAY 2005

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) Define the following pathological terms associated with the male and female reproductive systems;
- (i) epididymitis
 - (ii) cryptorchidism
 - (iii) erythroblastosis fetalis
 - (iv) amenorrhoea
 - (v) bilateral salpingo – oophorectomy
- [5]
- (b) State 5 stimuli needed for the breast to secrete and release true milk. [5]
- (c) Identify the regional lymph nodes draining the breast. [5]
- (d) List 5 parts of the vulva and give one function for each. [5]
- (e) Identify 5 concerns that a 25 year old professional lady with a lump in her breast may have when attending the imaging departments. [5]
- (f) (i) Explain the term “prostatism” [2]
(ii) Outline the radiographic appearance of prostatism [2]
(iii) Name 2 signs and symptoms of carcinoma of the prostate [1]
- (g) Describe the gross anatomy of the uterus of nulliparus female. [5]
- (h) Identify the measurements of the maternal pelvis that an obstetrician requires indicating the projections from which they are obtained. [5]

SECTION B

2. (a) Explain what is meant by "breast screening." [5]
(b) Discuss the problems that might be faced in introducing such a scheme in Zimbabwe. [10]
(c) Describe the position of patient and film for the medio-lateral oblique projection of the breast. [5]
3. Describe equipment suitable for examining the breast [20]
4. (a) Describe the lymphatic drainage of the testes and the scrotum. [10]
(b) State the locations and give functions of each of the following;
(i) seminal vesicles
(ii) prostate gland
(iii) bulbo urethral gland [6]
(c) State 4 clinical indications for undertaking ultrasound of the scrotum. [4]
5. (a) Describe the menstrual cycle indicating the hormonal influences. [15]
(b) Explain how the timing for a hysterosalpingogram is linked to the menstrual cycle. [5]
6. With reference to the hysterosalpingogram examination
(i) define the examination [2]
(ii) state 3 clinical indications for undertaking the procedure [3]
(iii) describe the procedure including the care of the patient. [15]

END OF EXAM