

BOWEN UNIVERSITY, IWO
COLLEGE OF HEALTH SCIENCES
ANATOMY PROGRAMME
FIRST SEMESTER 2021/2022 SESSION

COURSE CODE: ANA 303 (SYSTEMIC HISTOLOGY)

COURSE CREDIT: ONE (1) CREDIT

TIME ALLOWED: 1 HOURS 30 Minutes

INSTRUCTIONS: Answer question **ONE (1)** and any other **THREE (3)** questions. Well labelled diagram will enhance your marks.

1. Discuss the histology of the uriniferous tubule
 - a. Write on the microscopic features of the urinary bladder
(25 Marks)

2. a. The ovary is also known as a double glandular structure. Discuss.
 - b. Describe the histological differences between late proliferative and secretory endometrium
(15 Marks)

3. Describe the histology of the seminiferous tubule and list the functions of the Sertoli cells
(15 Marks)

4. Describe the microscopic structure of the epididymis and the prostate gland.
(15 Marks)

5. Describe the microscopic anatomy of the following;
 - a. Mammary gland
 - b. Placenta
(15 Marks)

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2021/2022 ACADEMIC SESSION FIRST SEMESTER EXAMINATION

ANA 304 NEUROANATOMY (2 Credits)

Instructions: Answer Questions 1 to 3 and any other Two (Five Questions in all). Time Allowed 90 Minutes

1. With the aid of diagrams, explain the anatomical basis of; a) Anterior cord syndrome b) Brown-Sequard syndrome c) Central cord syndrome (15 Marks)
2. Write on the central branches of the circle of Willis (10 Marks)
3. Draw and annotate transverse section of the neural axis at the following levels a) Medulla Oblongata at the sensory decussation b) Midbrain at the level of the superior colliculus (10 Marks)
4. With diagrams only, show gyri and sulci on the superolateral surface of the cerebrum. (7.5 Marks)
5. List the tracts in each of the three cerebellar peduncles (7.5 Marks)
6. Describe the pyramidal motor pathway (7.5 Marks)

Describe the branches of the axillary artery.

(15 Marks)

5. Describe the microscopic anatomy of the following;

- a. Mammary gland
- b. Placenta

(15 Marks)

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ERP EXAMINATION 2021/2022

COURSE: Gross Anatomy of the Upperlimb (ANA 201) Time Allowed: 2Hrs

INSTRUCTION: Answer questions 1 & 2 and any two (2) questions in the answer booklet provided. Annotated diagrams and illustrations are of great importance.

1. A 30 year old lady recently diagnosed with metastatic breast cancer. She is interested to know how cancer cells could spread in the body.
 - a. State 2 routes by which cancer cells can spread out in the body.
 - b. Describe the lymphatic drainage of the breast.
 - c. With the aid of well labelled diagrams, give the topographical anatomy of the breast considering the location, size, shape, the external and internal features/contents. **(20 Marks)**

2. Write on the location, boundaries, content and clinical application of the cubital fossa. **(20 Marks)**

3. Write short note on:
 - a. Carpal tunnel syndrome
 - b. Winging of scapula
 - c. Wrist drop **(15 Marks)**

4. Describe the muscles supplied by the median nerve in the forearm. **(15 Marks)**

5. Name the parts and branches of the axillary artery. **(15 Marks)**

6. Describe the microscopic anatomy of the following;

- a. Mammary gland
- b. Placenta

(15 Marks)

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2021/2022 EXTENDED REMEDIAL EXAMINATION

Course Title: Systemic Histology I

Course Credit: 2

Course Code: ANA 206

Time Allowed: 2 hours

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

1. Write on the histology of the Liver (15 Marks)
2. a. Describe the respiratory epithelium of the trachea (5 Marks)
b. List the functions of clara cells (5 Marks)
c. Why would you advise a smoker to quit smoking histologically? (5 Marks)
3. a. Discuss the histology of the Epidermis of the skin (15 Marks)
4. a. Describe the histology of myocardium of the heart (8 Marks)
b. List the functions of the fibrous skeleton of the heart (4 Marks)
c. List the types of capillaries (3 Marks)
5. a. Describe the histological organizations of compound glands (15 Marks)

5. Describe the microscopic anatomy of the following;

- a. Mammary gland
- b. Placenta

(15 Marks)

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2021/2022 ACADEMIC SESSION, ERP EXAMINATION
ANA 204 (Systemic Embryology I) (2 Credits) Time: 1^{1/2} HOURS

Answer Question 1 and any other 2 questions

1. A 7 months old girl was brought to the clinic with difficulty in breathing and blue colouration of the mouth. Mother noticed that the breathlessness was relieved by squatting. Chest X-ray revealed boot shaped heart.

- (a) What is this congenital defect called? (5 marks)
- (b) What is the embryological basis of this defect? (15 marks)
- (c) How does the squatting brings temporal relief? (10 marks)

2. a. Using a well labeled diagram only, show the fetal circulation (15 marks)
b. List five congenital anomalies of the respiratory system (5 marks)

3. Write short essays on the following congenital anomalies:

- e) Albinism (5 marks)
 - f) Ichthyosis (5 marks)
 - g) Gynaecomastia (5 marks)
 - h) Hypertrichosis (5 marks)
4. Discuss the formation of 'Vernix Caseosa' (20 marks)

(15 Marks)

5. Describe the microscopic anatomy of the following;

- a. Mammary gland
- b. Placenta

(15 Marks)