

BOWEN UNIVERSITY IWO, OSUN STATE
COLLEGE OF HEALTH OF BASIC MEDICAL SCIENCE
ANATOMY PROGRAMME

FIRST SEMESTER 2023/2024SESSION

Date: 02/02/2024 EXAMINATION TIME: 2 ½ HOURS

SYSTEMIC EMBRYOLOGY II ANA 305 (2 UNITS)

INSTRUCTIONS: Question ONE is compulsory and any other TWO questions each from Section A and B.

Compulsory

1. i. Explain how the internal female and male reproductive structures develop from two different duct system 12 marks
- ii. What would occur during fetal development to an XY individual with a mutation causing a nonfunctional SRY gene? 8 marks

Section A

2. In a table, list the derivatives of mesonephric tubules, mesonephric ducts and paramesonephric ducts in male and female 10 marks
3. With appropriate diagrams, describe the congenital anomalies of the uterus 10 marks
4. What are the cells of the testes, their embryonic primordia and how they affect development of the duct system? 10 marks

Section B

5. With appropriate diagrams, describe the development of the kidney under the following headings:
 - i. Pronephros
 - ii. Mesonephros
 - iii. Metanephros 10 marks
6. i. List Ten congenital anomalies of the urinary system
Discuss
 - ii. Autosomal recessive kidney disease
 - iii. Autosomal dominant kidney disease 10 marks
7. i. Discuss the development of the urinary bladder
- ii. What congenital anomalies are associated with it? 10 marks