

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

FIRST SEMESTER 2023/2024 SESSION

Date: FRIDAY 26/01/2024 EXAMINATION TIME: 2 ½ HOURS

ADVANCED GROSS ANATOMY ANA 405 (3 UNITS)

INSTRUCTIONS: Question One is compulsory, then, answer any Five questions

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1. a. Human bodies are used as educational tools, list five of its properties 5 marks
b. Define preservation of human body 2 marks
c. Highlight two means of preservation 4 marks
d. What are the four aims of embalming for anatomical purposes? 4 marks
e. List the groups of embalming fluids giving examples of each 5 marks
 2. a. With arrows, enumerate the route of pulmonary, systemic and coronary circulation 3 marks
b. What is coronary dominance of the heart? 2 marks
c. What arteries supply the heart? 2 marks
d. Describe the three types of anastomoses 3 marks
 3. a. Classify joints 3 marks
b. What are the sub classifications of synovial joints? 6 marks
c. State Hilton's law 1 mark
 4. a. List the 4 physiological properties of the skeletal muscle 4 marks
b. What is muscle contraction? 1 mark
c. Describe the types of muscle contractions 2 marks
d. Enumerate the functions of muscle 3 marks
 5. a. In a tabular form, highlight the components, connections and functions of the subdivisions of the cerebellum 3 marks
b. Describe in details the intrinsic neurons of the cerebellar cortex 3 marks
c. With a diagram, highlight the four intracellular nuclei 4 marks
 6. a. Enumerate the two distinct functional divisions of bones 2 marks
b. Classify bones based on
i. shape 2.5 marks
ii. Ossification
c. Differentiate between the two layers of bone tissue 2 marks
d. List the functions of bones 2.5 marks
 7. a. With appropriate diagram, describe the parts of the hippocampus 4 marks
b. Enumerate the fibers entering and leaving the hippocampus 3 marks
c. Highlight Papez circuit, what is its function? 3 marks