

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 - Meru-Kenya. Tel: +254(0) 799 529 958, +254(0) 799 529 959, +254 (0)712 524 293

Website: www.must.ac.ke Email: info@mucst.ac.ke

UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS (MATHS/P. E), KISW/P. E), (HIST/P. E), (CRE/P. E) AND (GEOG/P.E)

EPH 3151: HUMAN ANATOMY AND PHYSICAL ACTIVITY

DATE: APRIL 2024 TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) Describe an athlete's body in "anatomical Position" (3 Marks)
- b) Distinguish between the following concepts giving at least one physical activity performed along the planes and axes of symmetry.
 - i. Frontal Plane and Frontal axis (3 Marks)
- ii. Sagittal Plane and Sagittal Axis (3 Marks)
- iii. Transverse Plane and Longitudinal Axis (3 Marks)
- c) Giving reasons compare and contrast two adapted features of the lower and upper appendicular skeleton
 (8 Marks)
- d) Describe the principles of muscular movement that allows the flexion and extension of the arm around the elbow joint (8 Marks)
- e) Distinguish between the deformation at the thoracic and lumbar vertebrae (2 Marks)

MUST is ISO 9001:2015 and





QUESTION TWO (20 MARKS)

a) Among the parts of the axial skeleton, only the head is found to exhibit a range of movement.

Explain (4 Marks)

b) Explain the features and structure of the following:

i. Thoracic cavity (6 Marks)

ii. **Abdominal Cavity** (6 Marks)

c) Discuss the shape and functions of the diaphragm organ (4 Marks)

QUESTION THREE (20 MARKS)

Explain the following concepts in relation to bone structures;

i.	Articulation	(4 Marks)
ii.	Flexibility	(4 Marks)
iii.	Stability	(4 Marks)
iv.	Dislocation	(4 Marks)
v.	Fractures	(4 Marks)

QUESTION FOUR (20 MARKS)

a)	Giving examples, distinguish between Aerobic and Anaerobic Activities	(8 Marks)
b)	Discuss the role of the lungs and heart during intense physical activities	(8 Marks)
c)	Explain the role of warm up before a physical activity	(4 Marks)

QUESTION FIVE (20 MARKS)

- a) Discuss the concept sedentary lifestyle (6 Marks)
- b) Describe the anatomical features that you would observe as a result of sedentary lifestyle (8 Marks)
- c) What precautions would you take when rehabilitating individuals after a sedentary lifestyle (6 Marks)

MUST is ISO 9001:2015 and



