

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Applied and Health Sciences DEPARTMENT OF MEDICAL SCIENCES

DIPLOMA IN MEDICAL ENGINEERING (DME 112/212/213)

AMD 2250: HUMAN ANATOMY & PHYSIOLOGY

SPECIAL/SUPPLEMENTARY: EXAMINATIONS

SERIES: OCTOBER 2013

TIME: 2 HOURS

INSTRUCTIONS:

You should have the following for this examination

- Answer booklet

This paper consists of **FIVE** questions.

Attempt question ONE (compulsory) and any other TWO from this paper.

This paper consists of **2 PRINTED** pages **Question ONE**

 a) List the THREE layers that encase the heart. b) List FOUR differences between arteries and reins c) List eight organelles, giving their relevant function in the human cell. d) List FIVE constituents of blood plasma e) State FIVE important functions of the skeletal system. f) State THREE mechanisms necessary for transport of substances across 	(3marks) (4marks) (8marks) (5marks) (8marks) oss a plasma
membrane in a cell. g) Define the following terms (i) Dysponea (ii) Ischaemia	(3marks) (1mark) (1mark)
Question TWO	
Draw and label the structure of a knee joint.	(15marks)
Question THREE	
List atleast TEN agents affecting bone metabolism listing their effect to the bone tissue	(15marks)
Question FOUR	
Describe the stages of healing in fractures	(15marks)
Question FIVE	

Describe events that occur in an injured blood vessel.

(15marks)