

TECHNICAL UNIVERSITY OF MOMBASA
FACULTY OF APPLIED AND HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR THE DIPLOMA COMMUNITY
HEALTH

DCH 16M/YEAR 1/ SEMESTER2

AAB 2109: HUMAN ANATOMY AND PHYSIOLOGY II

SEMESTER EXAMINATIONS

SERIES: DECEMBER 2016

TIME: 2 HOURS

Paper 1
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Instructions

You should have the following for this paper

- Answer booklet

This paper consists of FIVE questions.

Answer Question **ONE (compulsory)** and any other **TWO** questions.

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Question ONE (Compulsory)

- i) Define the term hormone.(1 mk)
ii) State three functions of hormones in a human body. (3 mks)
- i) Differentiate between the terms ventilation and gas exchange. (2 mks)
ii) Outline two ways in which the human respiratory system defends the body against pathogenic invasions.(2mks)
- Briefly describe the cross-sectional structure of the wall of the human gastrointestinal tract. (4 mks)

- d) Elucidate four functions of the human Urinary System. (4 mks)
- e) Briefly describe the structure and the main function of each of the following parts of the human brain:
 - i) Mid brain (2 mks)
 - ii) Hind brain. (2 mks)
- f) i) Outline two functions of the female reproductive system.(2 mks)
 - ii) Briefly explain two factors that contribute to infertility in women.(2 mks)
- g) Briefly describe function of the human ear as an organ of balance. (4 mks)
- h) Explain the role of the following parts in human vision.
 - i) Ciliary muscles(1 mk)
 - ii)Retina (1 mk)

Question TWO

- a) Briefly describe three metabolic functions of the human lungs.(3 mks)
- b) Discuss six diseases that affect the human lungs.(12 mks)

Question THREE

- a) Describe the organization of the human lymphatic system. (12 mks)
- b) State three functions of the human lymphatic system. (3 mks)

Question FOUR

- a) Discuss the process of spermatogenesis in human males. (12 mks)
- b) Outline the roles of FSH and testosterone in spermatogenesis. (3 mks)

Question FIVE

- a) Provide a detailed structure of the human eye. (12 mks)
- b) Outline three functions of the human eye. (3 mks)