



Technical University of Mombasa

Faculty of Applied and Health Sciences

DEPARTMENT OF PURE AND APPLIED SCIENCES
DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY
(DSL T 12S)

AAB 2305 : HUMAN ANATOMY AND PHYSIOLOGY

SEMESTER: EXAMINATIONS

SERIES: DECEMBER 2013

TIME: 2 HOURS

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

This paper consists of 3 PRINTED pages

Question ONE

- (a) (i) State the constituents of gastric juice (2marks)
(ii) Name hormones secreted by the kidneys (2marks)
- (b) State the source and the product produced by the following enzyme
- (i) Salivary amylase (1mark)
(ii) Pancreatic amylase (1mark)
(iii) Maltase (1mark)
(iv) Lipase (1mark)
- (c) (i) State TWO symptoms of diabetes insipidus (2marks)
(ii) State TWO functions of cholecystokinin hormone (2marks)
- (d) (i) Name TWO functions of spinal cord (2marks)
(ii) List THREE continuous sheet of connective tissue which covers the brain (2marks)
- (e) (i) Describe the meaning of open circulation (3marks)
(ii) List TWO types of touch senses (1mark)
- (f) State the function of the following:
- (i) Luteinizing hormone (1mark)
(ii) Follicle – stimulating hormone (FSH) (1mark)
(iii) Fertilization (2marks)
- (g) (i) State TWO functions of gastric inhibitory peptide (2marks)
(ii) List TWO functions of the skin (2marks)
- (h) Name TWO phylum which circulatory system is absent (2marks)

Question TWO

- (a) Explain the homeostatic control of water (7marks)
(b) Draw and label a transverse section of the eye (8marks)

Question THREE

- (a) Explain the formation of urine (8marks)
(b) Describe the process of gastrulation (7marks)

Question FOUR

- (a) Explain systematic circulation of blood **(7marks)**
- (b) Describe the digestion of food in the small intestine **(8marks)**

Question FIVE

- (a) Explain why kidney is a major homeostatic device of the body **(7marks)**
- (b) Explain the ovarian cycle **(8marks)**