

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of applied and health sciences

DEPARTMENT OF PURE AND APPLIED SCINCES UNIVERSITY EXAMINATION FOR:

DIPLOMA IN ANALYTICAL CHEMISTRY (DAC14S)
AAB 2105 BIOLOGY –II
END OF SEMESTER EXAMINATION

SERIES: April 2016 PAPER-A

TIME:2HOURS

DATE:MAY2016

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. AttemptChoose instruction.

Do not write on the question paper.

QUESTION ONE

(a)(i)Name TWO characteristics of Division schzophyta (bacteria)	2 marks
(ii)List the phylums which belongs to Protista II Kingdom	2 marks
(b)(i) Name classes of Bryophyta Division	3 marks
(ii)List TWO Nematodes	1 mark
(c)(i)Explain the meaning of closed circulatory system	2 marks
(ii)State factors which affect diffusion	2 marks
(d) (i)List TWO types of excretory organs found in animals	2 marks
(ii)Name the major parts of the brain	2 marks
(e) Differentiate between skeletal and visceral muscles	4 marks
(f)Name regions of the vertebral column	4 marks
(g)Explain the meaning of the following;	
(i) Primary consumers	1 mark
(ii)Secondary consumers	1 mark
(iii)Tertiary consumers	1 mark
(vi) Quaternary consumers	1 mark
(h)Name TWO heart disease	2 marks
QUESTION TWO	
(a) Explain how the autotrophic primary producers support ecosystems	8 marks
(h)Draw a well labeled diagram of human heart	7 marks

QUESTION THREE

(a)Explain the mechanism of inspiration	7 marks
(b)Describe the structure of a neuron	8 marks

QUESTION FOUR

(a)Explain the mechanism of muscle contraction	8 marks
(b)Describe the concentration of urine in the tubules	7 marks

QUESTION FIVE

(a)Explain homeostatic control of blood glucose concentration	7 marks
(b)Explain the ovarian cycles	8 marks



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QUESTION ONE	
(a)(i)State TWO characteristics of Moneran Kingdom	2 marks
(ii)List TWO characteristics of prozoa II Kingdom	2 marks
(b)(i) State TWO characteristics of Division pteridophyta	2 marks
(ii)List TWO characteristics of class Arachnida	2 marks
(c)Explain the following types of heterotrophic nutrition;	
(i) Holozoic nutrition	1 mark
(ii) Saprobiontic/saprotrophic	1 mark
(iii) Parasitism	1 mark
(iv) Carnivorous	1 mark
(d)(i) List TWO techniques for measuring heart diseases	2 marks
(ii)Differentiate between a food chain and food web	2 marks
(e) Outline the steps of respiration	4 marks
(f) State the function of the following;	
(i)Somatic nervous system	2 marks
(ii)Autonomic nervous system	2 marks
(g) (i) Classify muscles based on their location	3 marks
(ii)Name parts which comprises hindbrain	1 marks
(h)State TWO functions of osmoreceptors in the body	2 marks
QUESTION TWO	
(a)Explain pulmonary blood circulation	7 marks
(b)Explain the mechanism of expiration	8 marks
QUESTION THREE	
(a)Describe the formation of urine	8 marks
(b) Explain homeostatic control of body temperature	7 marks
QUESTION FOUR	
(a)Draw a neat well labeled diagram of a nephron	7 marks
(b) Explain the mechanism of a reflex action	8 marks
QUESTION FIVE	
(a)Describe the process of facilitated diffusion	7 marks
(b)Explain function of the kidney tubules	8 marks
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