

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-B

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
(b)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;	2 110110
(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