THE UNITED REPUBLIC OF TANZANIA THE NATIONAL EXAMINATIONS COUNCIL FORM TWO NATIONAL ASSESSMENT

033

BIOLOGY

Time 2:30 Hours

Wednesday, 15th November 2017 a.m.

Instructions

- 1. This paper consists of sections A, B and C with a total of eleven (11) questions.
- 2. Answer all questions in section A and B, and one (1) question from section C.
- 3. All writing must be in blue or black ink except drawing which must be in pencil.
- 4. Calculators and cellular phone are not allowed in the examination room.
- 5. Write your Examination Number at the top right corner of every page.

FOR EX	XAMINERS' US	SE ONLY
QUESTION NUMBER	SCORE	EXAMINER'S INITIALS
1		
2		
3		
4		
5		
6		
7	11	
8		
9		
10		
11		
TOTAL		





Candidates Examination Number SECTION A (30 Marks)

Answer all questions in this section.

l. For	te its l	of the items (i) - (x), choose t etter beside the item number	he con	rect answer among the given alternatives and box provided.
(i)		hich structure differentiates e	euglena	from other members of the Kingdom
	A	Possession of flagellum	В	Possession of chloroplast
	C		D	Possession of cell wall.
(ii)	Th	ne feeding relationship repres	ented b	by the sequence of organisms;
	"(Grass	shoppe	r Frog" is called
	A	Food web	В	Interaction
	C	Food chain	D	Pyramid.
(iii)		hich of the following blood g	roup is	a universal recipient?
	A	В	В	AB
	C	A	D	0
(iv)	cha	ange in colour from blue to pilling is called	with B green t B D	protein lipids.
(v)	Ins	ufficient food rich in protein	to chil	dren especially infants result into nutritional
	A	Marasmus	В	Obesity
	C	Kwashiorkor	D	Ricketts.
(vi)	The	structure of a leaf that allow of the leaf during gaseous ex	s oxyg	gen and carbon dioxide to diffuse into and e is known as
		cuticle	В	epidermis
	C	mesophyll	D	stomata.
(vii)	The	blood vessels which carries	blood	from the lungs to the heart is called
	A	pulmonary artery	В	vena cava
	C	pulmonary vein	D	renal vain.
(viii)	Whie	ch one of the following is th	e list o	of animal tissues?
	A	Muscle, blood and bone	В	Brain, bone and liver

	(ix)	What does the concept of good health implies?
		A A state of physical, sexual and mental fitness.
		B Being physically, mentally and socially fit.
		C A state of family well being.
		D Reproductive health and family care.
	(x)	First Aid given to a victim of electric shock is meant to
		A keep the victim moving.
		B send the patient to the hospital.
		C provide the victim with fluids.
		D lie down with his/her feet higher than head.
2.		each of the items (i) - (x), write TRUE if a statement is correct or FALSE if a ment is not correct in a space provided.
	(i)	Botany is the study of animals
	(ii)	Gaseous exchange in mammals takes place in the nose and mouth
	(iii)	One enzyme can act on several food substances
	(iv)	During inhalation the ribs move upwards and outwards
	(v)	Anemia is a condition in which the patient has few erythrocytes
	(vi)	Landfill is a way of disposing domestic wastes
	(vii)	Amylase is an enzyme which acts on protein
	(viii)	A consumer in ecosystem produces their own food
	(ix)	Syphilis is a communicable disease
	(x)	All bacteria are harmful to man

 Match the phrase in List A with responses in List B by writing the letter of the correct response from List B below the item number of List A in a table provided.

	List A		List B
(i)	A disease transmitted through sexual intercourse and	A	Cholera
	treated by antibiotics.	В	Typhoid
(ii)	A viral disease transmitted through sexual intercourse.	C	AIDS
(iii)	An disease characterized by fever and coughing up	D	Malaria
	blood sputum.	E	Syphilis
(iv)	A disease spread by an agent known as anopheles.	F	Common cold
(v)	A disease caused by lack of proper hygiene and victim	G	Schistosoma
	had a stool of rice -water colouration.	H	Tuberculosis

ANSWER

List A	(i)	(ii)	(iii)	(iv)	(v)
List B					

- Complete each of the following statements by writing the correct answer in the answer sheet provided.
 - (i) A taxonomic rank of organisms which interbreed freely and give rise to viable offspring are known as
 - (ii) The type of classification which is based on few observed features is called.....
 - (iii) The highest rank of classification is known as.....
 - (iv) The process of sorting living things into groups is called.....
 - (v) The process of giving organisms scientific names is known as.....

SECTION B (50 Marks)

Answer all questions in this section.

Outline seven steps of scientific process used by scientists in the scientific investigation.

 (i)

 (ii)

 (iii)

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		(iv)	***************************************
		(v)	
		(vi)	
		(vii)	
		87.776	
	(b)	Why	hand lens is useful in studying Biology?

	213	n	
6.	(a)	Defii	ne the following terms:
		(i)	Parasite
		(ii)	Host
		(11)	11031
		(iii)	Community
	(b)	Give	two examples for each of the following group of parasitic organism:
		(i)	Endoparasite

		(ii)	Ectoparasite
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(a) State the meaning of the term "tissue" as used in Biology.

.....

(b) Arrange the following terms in a sequential order from simple to complexity of cell differentiation.

Tissue, Organism, Organ, Cell and system.

(c) Outline two differences between plant cell and animal cell.

S/N	Animal cell	Plant cell
(i)		

(ii)		

Figure 1 represents a part of the digestive system of a mammal. Study it carefully then, answer the questions that follow:

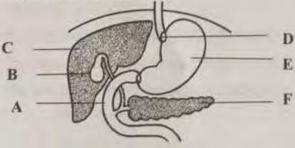


Figure 1

(a) Name the parts labelled with letters A, B, C, D, E and F.

Α

В

C

D

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		E
		F
	(b)	Name two enzymes secreted by the part labelled with letter F.
		(i)
		(ii)
	(c)	State the role of any one of the enzyme secreted by the part labeled F.

9.	(a)	Mention three structures used for gaseous exchange in land plants.
		(i)
		(ii)
		(iii)
	(b)	Briefly explain how the structure of a leaf is adapted to allow rapid gaseous exchange.
	(c)	Name the product of anaerobic respiration in human being muscles.

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SECTION C (20 Marks)

Answer one (1) question from this section.

	1 % 14
10.	Describe how you can provide First Aid to a person who has been "beaten by a snake" and the one who has "fainted during the parade ground".
11.	With the aid of a diagram, describe the structure of the types of blood cells and give one function for each blood cell.

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