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PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
KIBAHA TOWN COUNCIL
PRE-MOCK FORM FOUR EXAMINATION 2023
BIOLOGY 1
(For both school and private candidates)
CODE:032/1 **DAY: MONDAY, AFTERNOON**
DATE: 24/03/2023
Time: 3hours
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SECTION A

1. Choose the correct answer from among the given and write its letter in the space provided.
 - i) Jamila was involved in a motor accident and severely injured and was given first aid. The aim of the service provided was
 - A. To heal the wound
 - B. To reduce pain
 - C. To make her grow weak
 - D. To stop her from seeing a doctor
 - E. To prevent dislocation
 - ii) Infectious waste is also referred as...
 - A. Municipal waste
 - B. Industrial waste
 - C. Biohazardous waste
 - D. Domestic waste
 - E. Non-biodegradable waste
 - iii) A structure that joins bone to bone
 - A. Tendon
 - B. Septa
 - C. Ligament
 - D. Synovial membrane
 - E. Radius and ulna
 - iv) Cell is a basic functional unit of life what does this phrase mean?
 - A. All life processes take place in the cell
 - B. Cells contain cell membranes
 - C. All animals have cell
 - D. Animals lack chloroplasts
 - E. Plant cell store food in form of starch
 - v) The following are phyla of kingdom plantae except
 - A. Monocotyledonae
 - B. Bryophyte
 - C. Fillicinophyta
 - D. Angiospermophyta
 - E. corniferophyta
 - vi) Micronutrients are required by the society in small amount because....
 - A. They are toxic
 - B. They can cause disease
 - C. They contain no calories
 - D. They are difficult to digest
 - E. They cause dehydration
 - vii) It is advised not into to touch other peoples body fluids because
 - A. It can spread infections and diseases
 - B. It smells bad
 - C. It is against the law

- D. It can cause injuries
 - E. It is useless
- viii) The following are categories of diseases basing on occurrence except;
- A. Sporadic diseases
 - B. Pandemic diseases
 - C. Endemic diseases
 - D. Malaria diseases
 - E. Epidemic diseases
- ix) Malnutritional condition caused by protein deficiency
- A. Leprosy
 - B. Kwashiorkor
 - C. Marasmus
 - D. Rickets
 - E. Chicken pox
- x) Angiospermophytes comprises of
- A. Flowering plant
 - B. Monocot only
 - C. Dicots only
 - D. Vascular plants only
 - E. Primitive plants only

2. Match the items in list A with the corresponding phrases in list B

LIST A	LIST B
i) Hepatic portal vein	A. Carries deoxygenated blood from the upper parts of the body
ii) Blood plasma	B. Prevent friction when heart beats
iii) Agglutination	C. Divides the heart into two sides
iv) Donor	D. Carries blood under high pressure
v) Pericardial fluid	E. They do not have nucleic
vi) Septum	F. Yellowish liquid made of water and dissolved substances
	G. Clumping of a red blood cells
	H. A person who receives blood
	I. A person whose blood is transferred to another person
	J. Transport oxygen in blood
	K. Carries oxygenated blood to the liver

SECTION B

Answer all questions from this section.

3. (a) what is holozoic nutrition
 (b) Differentiate between mutualism and parasitism
 (c) Draw a labelled diagram of an external structure of a leaf
4. (a) Briefly explain the term “food processing”
 (b) Mention down five importance of food processing in daily life

- (c) Comment on the statement “we no longer need tradition method of processing food”
5. (a) Bryophytes are said to be “the most primitive plants “. Explain
(b) A coconut tree is a monocot plant, justify
6. In a clinical observation on Juma’s eyes was found that the image was formed behind the retina, explain the phenomena and with aid of a diagram show how it can be corrected.
7. (a) What is seed dormancy
(b) A variable seed was planted unfortunately failed to germinate. What was the reason behind?
8. In experiment a variety of garden peas having smooth seed coat was crossed with variety of wrinkled seed coat, all the seeds obtain in F1 had smooth seed coat. The F1 generation was selfed. The total numbers of F2 generation was 7324 seeds.
a) Using appropriate symbols work out the genotypes of F1 generation
b) From the information above work out the following F2 generation
i) Genotypic ratio
ii) Phenotypic ratio
iii) Number of wrinkled seeds

SECTION C

Answer only two question from this section.

9. Mammals were both behavioural and physiological mechanism in regulating body temperature. Explain how this takes place.
10. (a) define the following biological terms
i) Fertilization.
ii) Implantation.
(b) Now days most women have engaged themselves in employment opportunities as result, they prefer bottle feeding than breast feeding. Advise them on the importance of breast feeding.
11. Describe how the alveolus enable the lung to carry out its functions efficiently