

TUNDUMA AND ILEJE FORM TWO JOINT EXAMINATION  
MARKING SCHEME  
BIOLOGY.

1. @1 marks = 10 Marks [wazaelimu.com](http://wazaelimu.com)

Question	i	ii	iii	iv	v	vi	vii	viii	ix	x	
Answer	A	B	D	A	C	D	A	B	C	B	

2. @1 mark = 5 marks

List A	i	ii	iii	iv	v
List B	D	A	F	G	C

3. A) i) First aid box. 1 marks

- ii) a) Plaster used to cover small wound.  
 b) Painkiller used to relieving pain  
 c) Soap used to wash hand, wound and equipment  
 d) Thermometer used to measure body temperature  
 e) Cotton wool used to cleaning and drying wound.  
 f) bandage to cover large wound.  
 any 4 points 1 marks

B Importance of first aid

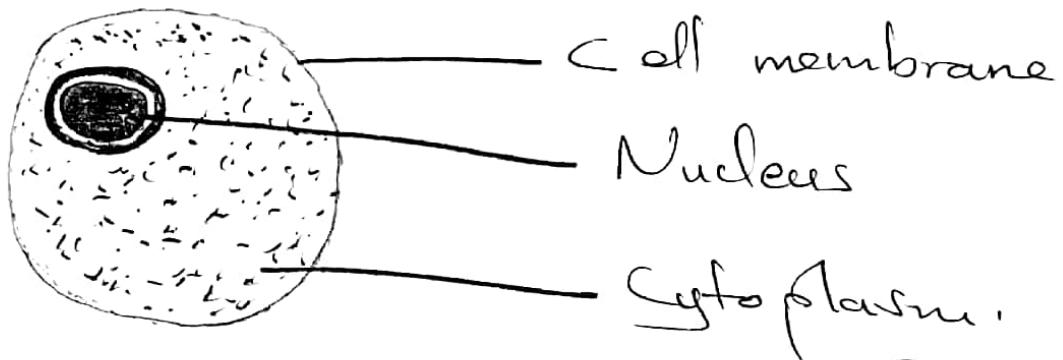
- i) Help to save life.  
 ii) Help to prevent further loss of blood.  
 iii) Help to reduce fear of death.  
 iv) Help to bring hope to the victim.  
 v) Help to reduce pain.  
 vi) It help to reduce recovery time of the victim.  
 1 mark = 5 marks

#### 4a) Cell theory .

- i Cell is a basic unit of life.
- ii Cells Contain hereditary materials .
- iii All life processes take place in the cell .
- iv All cell are basically the same in chemical composition
- v All cell originates from pre-existing cell.
- vi All living things are Composed of cell.

b Diagram of dog cell.

0.5 marks for each of marks



0.5 marks each of marks

5A Artificial classification 0.2 marks

B Four advantages of artificial classification

- i Does not require much knowledge .
- ii It is Simple and easy to use .
- iii It is less expensive .
- iv. it is stable
- v. it does not consume more time

0.4 marks

C Four disadvantage of artificial classification

- i It can bring Confusion among the scientist .
- ii Unrelated organism are grouped together .
- iii It is less accurate .
- iv Related organism are grouped different .
- v. Does not show evolutionary relationship among the organism

0.4 marks

0.4 marks

6a i) Root hair cell if it damaged.

- (a) water absorption will reduce
- (b) plants may wilt due to lack of water.
- (c) Growth will be stunted due to lack of absorbed minerals

02 marks

ii) Xylem cell if it damaged

- (a) water supply to leaves will stop.
- (b) Photosynthesis decreases
- (c) Plants wilt and eventually die.

02 marks

iii) Phloem cell if damaged.

- (a) Food can not be transported to non-photosynthetic parts (roots, stems, flowers)
- (b) Roots and storage organs will starve
- (c) Plants growth slow and may die.

02 marks

6b Importance of diffusion

i) In respiration process oxygen diffuses into the plants cell and lungs to the blood

ii) In digestion food substances are diffused into the blood stream.

iii) In removal of wastes in kidney, urea diffuses from the blood into the nephrons to form urine

iv) In gas exchange oxygen diffuses out of leaves during photosynthesis and  $\text{CO}_2$  diffuses in

v) In absorption of minerals and water some minerals diffuse into root hair cells.

04 marks any 02 points

7a. Six traditional methods of preventing food.

i) Smoking

ii) Salting

iii) Fermentation

iv) Cooking

v) Dry in the sun

vi) Curing

06 marks  
of each point.

7b. Four adaptation of ileum to its Functions

i) The lining of the ileum is very thin to reduce distance of diffusion

ii) The ileum has Villi which increase surface area for absorption of food.

iii) The ileum is very long to ensure maximum time for absorption of food.

iv) Villi have large network of blood capillaries for transport of absorbed food.

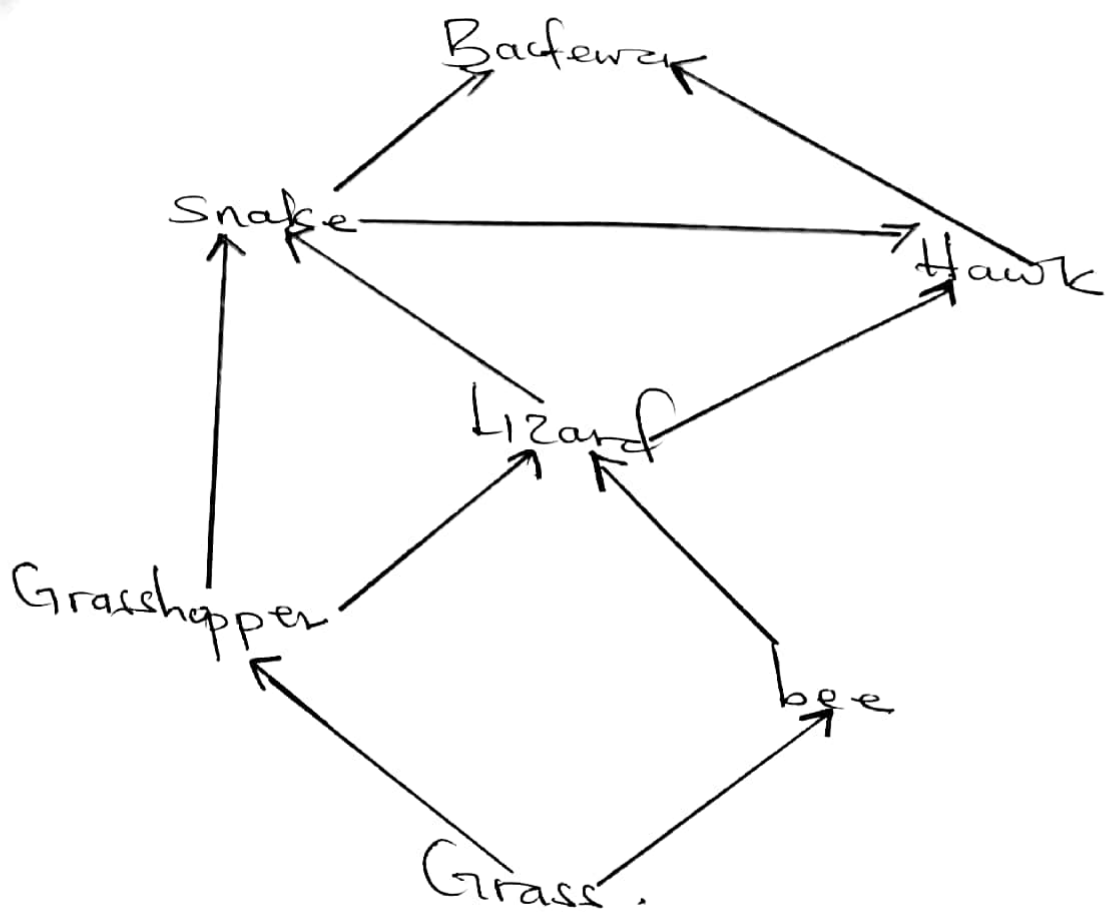
v) Ileum is highly folded to increase surface area.

04 marks

8a. Biotic - living Component from the environment

Abiotic - Non-living Component from the environment. 02 = 01 for each

8b.



i 6 food chain from constructed food web

ii Grass

iii food for snake and Hawk will also decrease.

iv @ Support in nutrient cycle.  
(b) Help in energy source  
(c) Habitat

08 marks = 02 marks in each form.

9 a. Factors affect the rate of gaseous exchange

i) Age

ii) Health status of the body.

iii) Physical activity

iv) Altitude.

v) Haemoglobin Concentration

0.5 marks 201 for any

9 b i Aerobic respiration 0.5 marks

ii Aerobic respiration is the type of respiration where by oxygen is used to break down glucose to release energy,  $\text{CO}_2$ , and water. 0.2 marks

iii) The cell will undergoes anaerobic respiration 0.1 marks

iv) a) Lactic acid

b)  $\text{CO}_2$

c) Ethanol / alcohol

d) Energy.

0.5 marks

## 10 Factors affecting body Immunity.

Introduction 1.5 marks.

Immunity is the ability of the body to resist infection and disease. The Immune system recognize the foreign material (antigen) and produce a chemical substance (antibodies) that fight against the invading antigens. Immunity can be natural or artificial.

Main body.

- i) Poor nutrition.
- ii) Incomplete treatment.
- iii) Lack of Vaccination
- iv) Attack by pathogens
- v) Damage to the skin
- vi) Extreme stress
- vii) Genetic disorders.

any 6 points = 02 marks  
12 marks

Conclusion 1.5 marks

In a nutshell, Immunity help the body to Function properly, speed up recovery and plays critical role in identifying and destroying abnormal cells.