

**THE PRESIDENT'S OFFICE  
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT  
HAI DISTRICT COUNCIL  
FORM TWO PRE- MOCK EXAMINATION**

**BIOLOGY  
MARKING SCHEME**

**SECTION A. (15 Marks)**

**1. 10 @ 1 mark=10 marks**

<b>i</b>	<b>ii</b>	<b>lii</b>	<b>lv</b>	<b>v</b>	<b>vi</b>	<b>vii</b>	<b>viii</b>	<b>ix</b>	<b>x</b>
<b>D</b>	<b>B</b>	<b>B</b>	<b>A</b>	<b>C</b>	<b>B</b>	<b>A</b>	<b>D</b>	<b>C</b>	<b>B</b>

**2. 05 @ 1 mark = 05marks**

<b>LIST A</b>	<b>I</b>	<b>li</b>	<b>iii</b>	<b>iv</b>	<b>v</b>
<b>LIST B</b>	<b>C</b>	<b>A</b>	<b>H</b>	<b>G</b>	<b>D</b>

**SECTION B: (70 Marks)**

**3. (a)**

- (i) Ecosystem – is a natural unit composed of both biotic (living) and abiotic (Non-living) factors, which interact with each other to form a stable self-sustaining system (01 mark)
- (ii) Population – is a group of organisms of the same species within a community (01 marks)
- (iii) Community – is a group of organisms belonging to different species living in the same area (01 mark)
- (iv) Environment – is refers to the immediate surroundings of an organism which affect it and with which it may interact (01 mark)

(b) (i) Producers are grass (01 mark)

(ii) Primary consumers are Grasshoppers (01 mark)

(c) A FOOD CHAIN ( 01 mark)

Grass —————> Grasshoppers —————> Birds —————> Hawks (03marks)

4. (a)

- (i) Cell membrane / plasma membrane
- (ii) Nucleus
- (iii) mitochondria
- (iv) Cytoplasm 01mark @ = 05marks
- (v) Cell wall

(b) 2 @ 2.5 marks = 05 Marks

Prokaryotic cell	Eukaryotic cell
<ul style="list-style-type: none"> <li>- They do not have true nucleus</li> <li>- They do not have membrane bound organelles</li> <li>- Mostly small in size</li> <li>- They reproduce by binary fission</li> </ul>	<ul style="list-style-type: none"> <li>- They have true nucleus</li> <li>- They have membrane bound organelles</li> <li>- Large in size</li> <li>- They reproduce by either sexual or sexual means</li> </ul>

5. (a) Characteristics of kingdom fungi

- (i) They have no chlorophyll
- (ii) Their bodies are organized into thread like structures called hyphae
- (iii) They are heterotrophic (saprophytic or parasitic)
- (iv) They are eukaryotes
- (v) Their cells have cell wall made up of chitin (05 marks) 1 @ mark

(b) 3 @ 2 = 06marks

Organisms	Phylum
(i) Bread moulds	Zygomycota
(ii) Mushroom	Basidiomycota
(iii) Yeast	Ascomycota

6. (a) 02@ = 04marks

- (i) Kwashiorkor
  - (ii) Providing a child with a balanced diet that has adequate amounts of proteins
- (b) Adaption of plants leaf to photosynthesis

i

- (i) It has petiole leaf stalk which attach the leaf to stem in position to absorb maximum sunlight
- (ii) It has lamina – with large surface area to maximize the absorption of sunlight energy
- (iii) It has xylem and phloem vessels.  
Xylem – transport manufactures food to other parts of the plants  
Phloem – transport manufactured food to other parts of the plants
- (iv) Epidermis - To allow sunlight to penetrate the leaf easy
- (v) Stomata – It allows oxygen and carbonidioxide to diffuse into and out of the leaf
- (vi) Have spongy meesophyll – To allow gaseous exchange to take place
- (vii) Have chloroplasts – where photosynthesis takes place **any 2@3 = 06 marks**

7. (a) (01 marks @ = 04mark

- (i) Bandage, sterile gauze, iodine fracture, (Treating wounds) – bites (tweezers)
- (ii) Safety pins
- (iii) Cotton wool / piece of cloth
- (iv) Splints, strips of cardboard with plaster cast

(b) Importance of having basic knowledge on first aid

In order to

- (i) Save lives of victim
- (ii) Help to shorter the time to recovery
- (iii) Reduce chance of disability to the victim
- (iv) Prevent further injuries to the victim

**02 mark @ =06marks**

8. (a) (01 @=03Marks)

- (i) Medicine  
Medicine doctors study methods of treating diseases and injuries and also prescribe the medicine for treating diseases

Before pre-scribing the medicine for particular diseases he must have to knowledgeable on how to identify symptoms of different diseases

- (ii) Nutrition

Food production involves a variety of plants and animal species which are identified and prepared using the knowledge of Biology

For example through studying biology one comes to know the sources and function of different food nutrients such as carbohydrates, proteins, fats, mineral salts in the organisms body

(iii) Agriculture

The person can provide required conditions for proper animal and plants growth by applying biology knowledge.

For example selecting the appropriate breeds, soil, fertilizers herbicides and pesticides

(b) Measurements used in biology

(i) Mass

(ii) Temperature

(iii) Length

04 marks @ 0 ½ =02 mark

(iv) Time

(v) Pulse rate

(c)

Sense organ	Use / function
(i) Eye	Seeing / vision
(ii) Nose	Smelling
(iii) Ear	Tearing
(iv) Tongue	Tasting
(v) Skin	Touching

05@ marks01=05marks

9. (a)

Organism	Locomotary structure
Amoeba	Pseudo podia
Paramecium	Celia
Euglena	Flagellum
Bacteria	Flagella

01marks @ =04marks

(b)

Letters	Meaningful words
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(i)	Icle	Cell
(ii)	Itseus	Tissue
(iii)	Ytmsse	System
(iv)	mgsonrai	Organism

<b>04 marks 1 @ marks</b>
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(c) - To avoid confusion among biologist in the world

-To make easy the study of living organisms

-To make easy identification of living things

<b>02 marks 1 @ marks</b>
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### **SECTION C: (15 Marks)**

10.- meaning of personal hygiene and good manner 1mark@=02marks

Principles of personal hygiene (any three) 3 @ 02marks=06 marks

-Wash your body everyday(bathing)

-Always wear clean clothes

-Washing hands with soap clean water after visiting toilets and before eating

-Brush your teeth at least twice a day

Importance of personal hygiene (any three) 3 @ 02marks =06marks

Conclusion= 01 mark

**Grand total= 15marks**