

**BAHAWALPUR BOARD**  
**GRADE 9**  
**BIOLOGY**  
**2018 GROUP 1**

Section-A (MCQs)

Ali Azeem

i) Example of Bio-Element is:

(Mark 1)

- A. Carbon
- B. Bromine
- C. Cobalt
- D. Aluminium

Answer:

A. Carbon

ii) Meaning of "Logos" is:

(Mark 1)

- A. Activity
- B. Structure
- C. Thinking
- D. Function

Answer:

C. Thinking

iii) Number of sense organs of Human is:

(Mark 1)

- A. 7
- B. 5

C. 6

D. 12

Answer:

B. 5

iv) Name of National animal of Pakistan is: (Mark 1)

A. Markhor

B. Cat

C. Dolphin

D. Deer

Answer:

A. Markhor

v) Cisternae belongs to: (Mark 1)

A. Mitochondrion

B. Golgi apparatus

C. Vacuole

D. Nucleus

Answer:

B. Golgi apparatus

vi) Cell was discovered in: (Mark 1)

A. 1665

B. 1965

C. 1974

D. 1995

Answer:

A. 1665

vii) Process of Regeneration is found in:

(Mark 1)

A. Cow

B. Sheep

C. Sea star

D. Hydra

Answer:

C. Sea star

viii) Biological Detergent is:

(Mark 1)

A. Pepsin

B. Protease

C. Trypsin

D. Glycogen

Answer:

B. Protease

ix) Dark reactions were studied by:

(Mark 1)

A. Schwann

B. Schleiden

C. Malvin Calvin

D. Robert Brown

Answer:

C. Malvin Calvin

x) Carcinogens produce:

(Mark 1)

- A. Diabetes
- B. Cancer
- C. Tetanus
- D. Night blindness

Answer:

- B. Cancer

xi) In plant, Transport of food is occur by:

(Mark 1)

- A. Wind
- B. Temperature
- C. Pressure
- D. Pressure flow mechanism

Answer:

- D. Pressure flow mechanism

xii) Guard cells are part of:

(Mark 1)

- A. Cortex
- B. Stomata
- C. Endodermis
- D. Pericycle

Answer:

- B. Stomata

Q.2 i) How can you differentiate between cell level and tissue level?

(Marks 2)

- Q.2 ii) Briefly describe the Biosphere level. (Marks 2)
- Q.2 iii) How is data organized in biological method? (Marks 2)
- Q.2 iv) Define theory and law. (Marks 2)
- Q.2 v) Differentiate between taxonomy and systematics. (Marks 2)
- Q.2 vi) Write aims of classification. (Marks 2)
- Q.2 vii) How cell was discovered by Robert Hooke? (Marks 2)
- Q.2 viii) Write the functions of Golgi Apparatus. (Marks 2)
- Q.3 i) Write down only names of two major phases of cell cycle. (Marks 2)
- Q.3 ii) What is S-Phase in Cell Cycle? (Marks 2)
- Q.3 iii) Define Mitosis. (Marks 2)
- Q.3 iv) Differentiate between Catabolism and Anabolism. (Marks 2)
- Q.3 v) Write down only two uses of Enzymes. (Marks 2)
- Q.3 vi) Define Bioenergetics. (Marks 2)
- Q.3 vii) Write down only names of three subunits of ATP molecule. (Marks 2)
- Q.3 viii) Write down a simple Equation for photosynthesis. (Marks 2)
- Q.4 i) What is appendix? (Marks 2)
- Q.4 ii) What is Gall Bladder? Give its function. (Marks 2)
- Q.4 iii) Write any two roles of Liver. (Marks 2)
- Q.4 iv) How Ulcer is treated? (Marks 2)
- Q.4 v) Describe effect of Temperature on rate of Transpiration. (Marks 2)
- Q.4 vi) Define Cohesion Tension theory. (Marks 2)
- Q.4 vii) Describe role of Platelets. (Marks 2)
- Q.4 viii) In which regions of the world Dengue fever is more common. (Marks 2)
- Q.5 a) Write a short note on any five carriers in biology. (Marks 5)
- Q.5 b) Describe the types of Meristematic Tissue. (Marks 4)

Q.6 a) What are Enzymes? Describe any four characteristics of Enzymes.  
(Marks 5)

Q.6 b) Write a note on Calvin Cycle. (Marks 4)

Q.7 a) Define Malnutrition and explain its effects. (Marks 5)

Q.7 b) Explain the factors affecting the rate of transpiration. (Marks 4)

**BAHAWALPUR BOARD**  
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**2018 GROUP 2**

Section-A (MCQs)

Ali Azeem

i) Which tissue makes the Glandular Tissue in animals: (Mark 1)

- A. Nervous tissue
- B. Epithelial tissue
- C. Connective tissue
- D. Muscular tissue

Answer:

B. Epithelial tissue

ii) In which season Houbara Bustard migrate to Pakistan. (Mark 1)

- A. Winter
- B. Autumn
- C. Spring
- D. Summer

Answer:

A. Winter

iii) Freezing point of water is:

(Mark 1)

- A. 98oC
- B. 0oC
- C. 37oC
- D. 100oC

Answer:

- B. 0oC

iv) Where Jabir Bin Hayan was born:

(Mark 1)

- A. Iraq
- B. Arab
- C. Egypt
- D. Iran

Answer:

- D. Iran

v) Micrometers in one millimeter are:

(Mark 1)

- A. 10
- B. 100
- C. 1000
- D. 10000

Answer:

- C. 1000

vi) Optimum temperature for the maximum working speed of Human Enzymes is;  
(Mark 1)

- A. 35oC
- B. 39oC
- C. 37oC
- D. 41oC

Answer:

- C. 37oC

vii) Division of Nucleus is called: (Mark 1)

- A. Karyokinesis
- B. Cytokinesis
- C. Plasmogamy
- D. Karyogamy

Answer:

- A. Karyokinesis

viii) Lysosomes were discovered by: (Mark 1)

- A. Christian Rene De Duve
- B. Camillo Golgi
- C. Schleiden
- D. Robert Brown

Answer:

- A. Christian Rene De Duve

ix) In which part of leaf cells, Chlorophyll is present: (Mark 1)



- A. Stroma
- B. Thylakoids
- C. Plasma membrane
- D. Cytoplasm

Answer:

- D. Cytoplasm

x) Number of white blood cells in one cubic millimeter of blood:(Mark 1)

- A. 4000-5000
- B. 5000-6000
- C. 6000-7000
- D. 7000-8000

Answer:

- D. 7000-8000

xi) Which cells are responsible for blood clotting: (Mark 1)

- A. Platelets
- B. Erythrocytes
- C. Neutrophils
- D. Basophils

Answer:

- A. Platelets

xii) Where are Villi found: (Mark 1)

- A. Esophagus

B. Stomach

C. Small intestine

D. Large intestine

Answer:

C. Small intestine

Q.2 i) Define biogeography. (Marks 2)

Q.2 ii) Differentiate between population and community. (Marks 2)

Q.2 iii) Write two important observations of A.F.A king about Malaria.  
(Marks 2)

Q.2 iv) How quantitative observations are better in Biological  
method? (Marks 2)

Q.2 v) Write importance of Biodiversity. (Marks 2)

Q.2 vi) What is meant by Endangered Species? (Marks 2)

Q.2 vii) Differentiate between Primary and Secondary cell wall of  
plants. (Marks 2)

Q.2 viii) Explain turgor pressure. (Marks 2)

Q.3 i) What is crossing over? (Marks 2)

Q.3 ii) Define blebs. (Marks 2)

Q.3 iii) What is Haploid cell? (Marks 2)

Q.3 iv) Write benefits of Enzymes substrate complex. (Marks 2)

Q.3 v) Why is activation energy necessary? (Marks 2)

Q.3 vi) Differentiate between Oxidation and reduction. (Marks 2)

Q.3 vii) Write down chemical equation of respiration process. (Marks 2)

Q.3 viii) What is meant by Anaerobes? (Marks 2)

Q.4 i) How can the deficiency of vitamin A causes blindness? (Marks 2)

Q.4 ii) Define Chyme. (Marks 2)

Q.4 iii) Write the role of cardiac and pyloric sphincter. (Marks 2)

Q.4 iv) What are Autotrophic Organsims? Give an example. (Marks 2)

Q.4 v) Describe effect of temperature on rate of transpiration.(Marks 2)

Q.4 vi) Write the function of stomata. (Marks 2)

Q.4 vii) What are Lenticels and where they are found in plants?  
(Marks 2)

Q.4 viii) Write the symptoms of Dengue fever. (Marks 2)

Q.5 a) Describe Organ and Organ system level in detail. (Marks 5)

Q.5 b) Explain types of Endoplasmic Reticulum. (Marks 4)

Q.6 a) Explain factors affecting the rate of Enzymes action. (Marks 5)

Q.6 b) Describe Molecular structure of ATP(Adenosine Triphosphate).  
(Marks 4)

Q.7 a) Describe the functions of liver. (Marks 5)

Q.7 b) Write a note on Myocardial infarction. (Marks 4)