

# FAISALABAD BOARD

## GRADE 9

## BIOLOGY

## 2018 GROUP 1

Lesson 1 of 32

Section-A (MCQs)

i) Myocardium means:

(Mark 1)

A. Death of tissue

B. Muscle of heart

C. Embolus

D. Chyme

Answer:

B. Muscle of heart

ii) The heart beat of healthy woman per minute is :

(Mark 1)

A. 90

B. 82

C. 75

D. 70

Answer:

C. 75

iii) The name of disease produced due to the deficiency of iron is:

(Mark 1)

A. Anaemia

B. Fever

C. Flu

D. Tetanus

Answer:

A. Anaemia

iv) ATP was discovered in:

(Mark 1)

A. 1957

B. 1945

C. 1929

D. 1935

Answer:

C. 1929

v) Example of vitamin is:

(Mark 1)

A. Riboflavin

B. Glucose

C. Fatty acid

D. Glycerine

Answer:

A. Riboflavin

vi) Mitosis was discovered:

(Mark 1)

A. Pasteur

- B. Darwin
- C. Walther Flemming
- D. Lamarck

Answer:

- C. Walther Flemming

vii) Cell walls of fungi are made of: (Mark 1)

- A. Chitin
- B. Cellulose
- C. Glucose
- D. Starch

Answer:

- A. Chitin

viii) The study of animal tissues is done by: (Mark 1)

- A. Rudolf Virchow
- B. Theoder Schwann
- C. Robert Hooke
- D. Carlous Linnaeus

Answer:

- B. Theoder Schwann

ix) Founder of five kingdom system of classification is: (Mark 1)

- A. Robert Brown
- B. Aristole
- C. Robert Whittaker

D. Carlous Linnaeus

Answer:

C. Robert Whittaker

x) Deductions are drawn from:

(Mark 1)

A. Experiment

B. Hypothesis

C. Theory

D. Observation

Answer:

B. Hypothesis

xi) Liver belongs to:

(Mark 1)

A. Blood circulatory system

B. Digestive system

C. Respiratory system

D. Excretory system

Answer:

D. Excretory system

xii) Volvox is example of:

(Mark 1)

A. Red alga

B. Brown alga

C. Blue green alga

D. Green alga

Answer:

D. Green alga

- Q.2 i) Define Taxonomy. (Marks 2)
- Q.2 ii) Write the scientific name of mustard plant. (Marks 2)
- Q.2 iii) What is meant by biological method? (Marks 2)
- Q.2 iv) What is scientific law? Give an example (Marks 2)
- Q.2 v) Describe the importance of biodiversity. (Marks 2)
- Q.2 vi) Describe two causes of deforestation. (Marks 2)
- Q.2 vii) Differentiate between phagocytosis and pinocytosis. (Marks 2)
- Q.2 viii) What are chromoplasts? Describe its two functions. (Marks 2)
- Q.3 i) Define apoptosis. (Marks 2)
- Q.3 ii) How cytokinesis takes place in plant cells? (Marks 2)
- Q.3 iii) Describe non-disjunction. (Marks 2)
- Q.3 iv) Why enzyme becomes denature at very high temperature. (Marks 2)
- Q.3 v) Differentiate between anabolism and catabolism. (Marks 2)
- Q.3 vi) What is effect of light intensity and temperature in photosynthesis? (Marks 2)
- Q.3 vii) Differentiate between oxidation and reduction. (Marks 2)
- Q.3 viii) Define bioenergetics. (Marks 2)
- Q.4 i) What is Diarrhea? Write two reasons. (Marks 2)
- Q.4 ii) Write the role of duodenum in small intestine. (Marks 2)
- Q.4 iii) What is meant by cardiac and pyloric sphincter? (Marks 2)
- Q.4 iv) What is anemia? write two symptoms. (Marks 2)
- Q.4 v) What is meant by blood plasma? (Marks 2)
- Q.4 vi) Differentiate between atherosclerosis and arteriosclerosis. (Marks 2)
- Q.4 vii) What is angina pectoris? Write two symptoms. (Marks 2)
- Q.4 viii) What is dengue fever? Write its symptoms. (Marks 2)
- Q.5 a) What is organ? Explain organ system level. (Marks 4)

Q.5 b) Describe tissue. Also describe three types of muscle tissues.  
(Marks 5)

Q.6 a) What are enzymes? Explain the mechanism of enzyme action.  
(Marks 4)

Q.6 b) Explain the limiting factors in photosynthesis. (Marks 5)

Q.7 a) Discuss the role of small intestine in digestion. (Marks 4)

Q.7 b) Write a note on opening and closing of stomata. (Marks 5)

# **FAISALABAD BOARD**

## **GRADE 9**

### **BIOLOGY**

#### **2018 GROUP 2**

Lesson 1 of 32

Section-A (MCQs)

i) The word meiosis is derived from a Greek word meioun, which means:  
(Mark 1)

A. To make smaller

B. To make bigger

C. To cut

D. To duplicate

Answer: A. To make smaller

ii) In all biochemical reactions for the synthesis of large compound is involved in:  
(Mark 1)

A. Catabolism

- B. Anabolism
- C. Respiration
- D. Transpiration

Answer: B. Anabolism

iii) One mole of ATP release energy (Mark 1)

- A. 7.8 Kcal
- B. 7.9 Kcal
- C. 7.3 Kcal
- D. 7.14 Kcal

Answer: C. 7.3 Kcal

iv) In adult human the length of oesophagus is about: (Mark 1)

- A. 10 cm
- B. 15 cm
- C. 20 cm
- D. 25 cm

Answer: D. 25 cm

v) World Heart day is celebrated in the world every year on. (Mark 1)

- A. 27 May
- B. 28 September
- C. 08 May
- D. 08 July

Answer: B. 28 September

vi) Valves to prevent the back flow of blood are found in: (Mark 1)

- A. Arteries
- B. Veins
- C. Capillaries
- D. Arteriole

Answer: B. Veins

vii) We made every living thing from: (Mark 1)

- A. Water
- B. Soil
- C. Air
- D. Fire

Answer: A. Water

viii) In 2010 population of human beings in pakistan was: (Mark 1)

- A. 180.5 million
- B. 175.5 million
- C. 170.5 million
- D. 173.5 million

Answer: D. 173.5 million

ix) A liter of ethanol weighs: (Mark 1)

- A. 780 g
- B. 789 g
- C. 1000 g



D. 750 g

Answer: B. 789 g

x) The basic unit of classification is:

(Mark 1)

A. class

B. order

C. Genus

D. Species

Answer: D. Species

xi) Human body is made of about type of cells.

(Mark 1)

A. 200

B. 300

C. 400

D. 500

Answer: A. 200

xii) Ribosomes are the sites of synthesis:

(Mark 1)

A. Lipids

B. Proteins

C. Carbohydrates

D. RNA

Answer: B. Proteins

Q.2 i) Differentiate between vegetative and reproductive organs.

(Marks 2)

- Q.2 ii) What is meant by biomolecule. (Marks 2)
- Q.2 iii) Give two examples of biological laws. (Marks 2)
- Q.2 iv) What is bioinformatics. (Marks 2)
- Q.2 v) What were basis of five kingdom classification system. (Marks 2)
- Q.2 vi) Describe the contributions of Carolus Linnaeus in classification. (Marks 2)
- Q.2 vii) Write function of lysosomes. (Marks 2)
- Q.2 viii) Define active transport. (Marks 2)
- Q.3 i) What is mitotic spindle? (Marks 2)
- Q.3 ii) What is phragmoplast? (Marks 2)
- Q.3 iii) Define meiosis. (Marks 2)
- Q.3 iv) What is the difference between intracellular and extracellular enzymes? (Marks 2)
- Q.3 v) What is meant by activation energy? (Marks 2)
- Q.3 vi) Define Photosynthesis. (Marks 2)
- Q.3 vii) What is the difference between aerobic anaerobic respiration? (Marks 2)
- Q.3 viii) What is meant by light reactions? (Marks 2)
- Q.4 i) What are harmful effects of saturated fatty acids? (Marks 2)
- Q.4 ii) Differentiate between insoluble and soluble dietary fibres. (Marks 2)
- Q.4 iii) Write four sources of lipids. (Marks 2)
- Q.4 iv) What is meant by peristalsis. (Marks 2)
- Q.4 v) Why transpiration is necessary for plants? (Marks 2)
- Q.4 vi) Define cardiac cycle. (Marks 2)
- Q.4 vii) Heart is usually felt to be on left side. Why? (Marks 2)
- Q.4 viii) What are symptoms of Dengue fever? (Marks 2)
- Q.5 a) Write detail of any five careers relating to biology. (Marks 4)
- Q.5 b) Write a note on compound tissues. (Marks 5)

Q.6 a) Define enzyme and explain mechanism of enzyme action.  
(Marks 4)

Q.6 b) Write a comprehensive note on oxidation reduction reactions.  
(Marks 5)

Q.7 a) What are vitamins? Describe the importance of vitamin A and Vitamin C in human body.  
(Marks 4)

Q.7 b) Write a detailed note on myocardial infarction. (Marks 5)