

Biology	10 <sup>th</sup> , Lahore Board 2016	Group - I
Time: 15 Min.	Objective Type	Marks : 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

- 1 For gaseous exchange the leaves and young stems have in their epidermis :  
 (A) Stomata (B) Lenticels  
 (C) Companion cell (D) Ground cells
- 2 The blood glucose level remains about -----per liter despite eating a meal rich in carbohydrates:  
 (A) 2 grams (B) 1 gram  
 (C) 3 grams (D) 4 grams
- 3 Types of neurons according to their work are :  
 (A) Three (B) Four  
 (C) Five (D) Two
- 4 Temporal lobe is concerned with:  
 (A) Hearing and smell  
 (B) Control of skeletal muscles  
 (C) Visual information  
 (D) Both A & B
- 5 The skeleton found outside the body is called  
 (A) Endoskeleton (B) Exoskeleton  
 (C) Hydro-skeleton (D) Fibro-skeleton
- 6 The simple and most common way of asexual reproduction in bacteria is :  
 (A) Binary fission (B) Multiple fission  
 (C) Regeneration (D) Budding
- 7 Calyx is the outer most whorl of the flower and

bears the colour :

- (A) Red (B) Green  
(C) Blue (D) White

**8** Transmission of characters (Traits) from parent to offspring is called :

- (A) Inheritance (B) Mutation  
(C) Reproduction (D) Regeneration

**9** Alternate forms of genes are called :

- (A) Traits (B) Alleles  
(C) Coci (D) Characters

**10** All the ecosystem of the world together form the \_\_\_\_\_ :

- (A) Population (B) Biosphere  
(C) Community (D) Habitat

**11** Complete map of human genome was published in :

- (A) 1999 (B) 2001  
(C) 2000 (D) 2002

**12** Sir Alexander Fleming was awarded the Nobel Prize in :

- (A) 1940 (B) 1945  
(C) 1950 (D) 1960

<b>Biology</b>	<b>10<sup>th</sup>, Lahore Board 2016</b>	<b>Group - I</b>
<b>Time:2.45 hrs</b>	<b>Subjective Type</b>	<b>Marks : 63</b>

**PART-I**

**2.** Write short answers to any Six (6) questions: 12

- i** Define Bronchitis.  
**ii** How will you differentiate between a stoma and lenticel?

- iii** Write the symptoms of asthma.
- iv** What is arthritis?
- v** Define bone with example.
- vi** Define the antagonists muscles.
- vii** Write the name of Abiotic and Biotic components of Ecosystem.
- viii** What is meant by community?
- ix** Define food chain and give an example of a simple food chain.
- Write short answers to any Five (5) questions: 10**
- i** What is lithotripsy?
- ii** What are the main organs work for homeostasis in man? Explain.
- iii** Write down the names of four organs of urinary system.
- iv** What is meant by dormancy?
- v** Define multiple fission.
- vi** What is continuous fermentation?
- vii** Define single cell protein.
- viii** What is Beta-endorphin? What is its function?
- Write short answers to any FIVE (5) questions: 10**
- i** What is meant by receptors? Give examples.
- ii** Compare exocrine glands and endocrine glands.
- iii** Define transcription and translation.
- iv** What is meant by nucleosomes?
- v** What is "Punnet Square"?
- vi** What is difference between analgesic and antibiotic?
- vii** What is meant by "Social Stigma"?
- viii** What are Hallucinogens?

## PART-II

Note : Attempt any THREE questions.

- 5.(a)** What is Pneumonia, describe its symptoms and causes? 4
- (b)** What steps are involved in the formation of urine in the kidney? 3
- 6.(a)** Describe the structure and function of thyroid gland and pancreas. 4
- (b)** Explain three types of joints. 3
- 7.(a)** Describe the types of seed germination, also describe the conditions for the germination of seed. 4
- (b)** Describe the advantages and disadvantages of the vegetative propagation in plants. 3
- 8.(a)** Explain artificial selection. 4
- (b)** What is parasitism? Explain its two types with examples. 3
- 9.(a)** Write a note on application of fermentation. 4
- (b)** Describe drug addiction and associated problems. 3

## PART-III

(Practical Part)

Note : Attempt any TWO questions.

- A.(i)** Write down the procedure of experiment to show the presence of tar in cigarette smoke. 3
- (ii)** Draw the diagram of the experimental apparatus measuring the inhaled and the exhaled air. 2
- B.(i)** You performed experiment to investigate chemical composition of bone. Write procedure for this experiment. 3
- (ii)** Draw the labelled diagram of onion bulb. 2
- C.(i)** Write the procedure of experiment to show the

Biology

10<sup>th</sup>, Lahore Board  
2016

Group - II

Time: 15 Min.

Objective Type

Marks : 12

Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen Ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1 Alcoholic fermentation is processed by

- (A) Virus (B) Bacteria  
(C) Fungi (D) Algae

2 Is prepared from opium :

- (A) Vaccine (B) Aspirin  
(C) Morphine (D) Paracetamol

3 Alternate form of gene is called :

- (A) D.N.A. (B) Gamete  
(C) Chromosome (D) Allele

4 As per normal chemical composition the amount of water in the urine is :

- (A) 60% (B) 70%  
(C) 80% (D) 95%

5 In every 100 ml of human blood concentration of glucose is maintained as :

- (A) 180-200 mg (B) 150-180 mg  
(C) 100-150 mg (D) 80-120 mg

6 Is not a part of carpel :

- (A) Ovary (B) Anther

- (C) Stigma (D) Style
- 7 Cytosine always pair with :  
 (A) Guanine (B) Thiamine  
 (C) Adenine (D) Hydrogen
- 8 Naturally found in graphite and diamond  
 (A) Nitrogen (B) Carbon  
 (C) Oxygen (D) Hydrogen
- 9 Stomata are frequently present on :  
 (A) Upper side of leaf (B) Lower side of leaf  
 (C) Both sides of leaf (D) Stem
- 10 Ovary is ripened into :  
 (A) Seed (B) Flower  
 (C) Fruit (D) Sweetness
- 11 The part of the brain responsible for muscle movement, interpretation of the senses and the memory is :  
 (A) Cerebrum (B) Pons  
 (C) Medulla oblongata (D) Cerebellum
- 12 Some bones prepare :  
 (A) Mucous (B) Blood cells  
 (C) Oxygen (D) Hormones

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### PART-I

- 2 Write short answers to any Six (6) questions: 12
- i Define nasal cavity.
  - ii Define vocal cords.
  - iii Why does blood become thick due to smoking?
  - iv Define ligaments.

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- v  
vi
- What are biceps and triceps?  
Differentiate between flexor and extensor muscle.
- vii
- Define predation with an example.
- viii
- What are the effects of global warming?
- ix
- What is meant by osmosis?  
Write short answers to any Five (5) questions: 10
- i
- What are hydrophytes? Give an example.
- ii
- What is hilus?
- iii
- Define dialysis. Name its two types.
- iv
- What is reproduction? Name its two basic types.
- v
- What is difference between self pollination and cross pollination?
- vi
- What is vector in genetic engineering?
- vii
- What is meant by single cell protein?
- viii
- What is meant by gene therapy?  
Write short answers to any FIVE (5) questions: 10
- i
- What is meant by salutatory impulses?
- ii
- What are meninges? Write down their function.
- iii
- Differentiate between transcription and translation.
- iv
- Differentiate between gene and allele.
- v
- Differentiate between breeds and varieties.
- vi
- What is meant by analgesics? Give an example.
- vii
- Define hallucinogens.
- viii
- Differentiate between bactericidal and bacteriostatic antibiotics.

## **PART-II**

Note : Attempt any THREE questions.

- 5.(a)** Write a complete note on Pneumonia.
- (b)** How plants remove extra carbon dioxide and oxygen outside?
- 6.(a)** Explain structure and function of pituitary gland.
- (b)** What is arthritis, describe its two types?
- 7.(a)** What is AIDS? Give its causes.
- (b)** Explain binary fission with the help of amoeba.
- 8.(a)** Write a note on Mendel's Law of Segregation.
- (b)** Write a note on nitrogen fixation.
- 9.(a)** Write a note on batch fermentation and continuous fermentation in fermenter.
- (b)** Describe the mode of action of vaccines.

### **PART-III**

#### **(Practical Part)**

**Note : Attempt any TWO questions.**

- A.(i)** Write the procedure of experiment conducted to identify the presence of carbon dioxide in air exhaled from lungs.
- (ii)** Draw the diagram of experiment set up to detect the presence of tar in cigarette smoke.
- B.(i)** You observed experiment to investigate chemical composition of bone. Write procedure for this experiment.
- (ii)** Draw the label diagram of observed Rhizome.
- C.(i)** Write down the procedure of experiment for the fermentation of flour.
- (ii)** What is an ecosystem?