

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. Cutting or filling two or more circles will result in zero mark in that question.

Q1.

1:

1. **What do some bones produce?**
(A) Mucous (B) Hormones (C) Blood cells (D) Oxygen
2. **Anti virus protein is:**
(A) Insulin (B) Interferons (C) Thymosin (D) Urokinase
3. **True breeding means:**
(A) Homozygous (B) Heterozygous (C) Karyotype (D) Phenotype
4. **Which organ is responsible for filtering the blood?**
(A) Intestine (B) Kidney (C) Brain (D) Stomach
5. **The number of pairs of homologous chromosomes in human cell are:**
(A) 26 (B) 25 (C) 24 (D) 23
6. **Which one of the following disease is cured by vaccines?**
(A) AIDS (B) Smallpox (C) Cancer (D) Malaria
7. **Number of pair of cranial nerves in human are:**
(A) 10 (B) 14 (C) 12 (D) 16
8. **Root develops from:**
(A) Testa (B) Plumule (C) Micropyle (D) Radicle
9. **Asexual reproduction in yeast take place by:**
(A) Spore formation (B) Multiple fission (C) Binary fission (D) Budding
10. **Which are decomposers?**
(A) Plants (B) Animals (C) Algae (D) Fungi and bacteria
11. **Where does the gaseous exchange occur in human?**
(A) Pharynx (B) Trachea (C) Bronchi (D) Alveoli
12. **For all ecosystems the basic source of energy is:**
(A) Plants (B) Water (C) Sun (D) Fire

Lahore Board 2019 (First Group)

Roll No.(in Figures): (in Words):

Maximum Marks: 48

SUBJECTIVE TYPE (PART - I)

Time Allowed :1.45 Hours

Q2. Write short answers to any FIVE (5) questions: (5×2=10)

- (i) What are the effects of smoking on teeth?
- (ii) How sound is produced in voice box?
- (iii) What is the function of hairs and mucous in the nose?
- (iv) What are the causes of stone formation in kidney?
- (v) Define homeostasis. Give an example.
- (vi) What are meninges? Write down their functions.
- (vii) Write down the function of rods and cones present in the retina of eye.
- (viii) How epilepsy can be treated?

Q3. Write short answers to any FIVE (5) questions: (5×2=10)

- (i) What two minerals are found in bones?
- (ii) Differentiate between tendons and ligaments.
- (iii) Define reproduction also write its importance for species.
- (iv) What is micropyle? What is its use for seed?
- (v) What is meant by alternation of generations?
- (vi) Differentiate between homozygous genotype and heterozygous genotype.
- (vii) What is meant by co-dominance?
- (viii) What is theory of special creation?

Q4. Write short answers to any FIVE (5) questions: (5×2=10)

- (i) What is meant by decomposers? Give an example.
- (ii) Write down four disadvantages of excessive denitrification.
- (iii) What is green house effect? Write the name of two important green house gases.
- (iv) Write down four uses of formic acid.
- (v) Define the term biotechnology. Also write its one benefit.
- (vi) Differentiate between pharmaceutical and addictive drugs.
- (vii) What do you mean by narcotics? Write down its one use.
- (viii) What are sulpha drugs? Write down its one use.

(PART - II)

Note: Attempt any TWO questions. (2×9=18)

- Q5.** (a) Explain osmoregulation and thermoregulation. 4
(b) Write down the name and explain different components of coordinated action. 5
- Q6.** (a) Define arthritis and describe its types. 4
(b) Define germination of seed. Describe various conditions necessary for seed germination. 5
- Q7.** (a) Give a detailed account of urbanization. 4
(b) Explain basic steps in genetic engineering. 5

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Q1.

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1. **The inner layer of eye is sensory and is called as:**
(A) Sclera (B) Cornea (C) Choroid (D) Retina
2. **The base of food chain is always formed by:**
(A) Animal (B) Ecosystem (C) Plant (producer) (D) Food web
3. **A cluster of specialized cells which surrounds and nourishes each egg cell is called:**
(A) Fallopian tubes (B) Follicle (C) Uterus (D) Cervix
4. **The maintenance of internal body temperature is called:**
(A) Homeostasis (B) Osmoregulation (C) Thermoregulation (D) Excretion
5. **The specific combination of genes in an individual is known as:**
(A) Phenotype (B) Karyotype (C) Allele (D) Genotype
6. **Which of the following drug is obtained from plants?**
(A) Aspirin (B) Morphine (C) Insulin (D) Cephalosporin
7. **The largest part of forebrain is called:**
(A) Cerebrum (B) Thalamus (C) Hypothalamus (D) Cerebellum
8. **Which bone is part of appendicular skeleton?**
(A) Pectoral girdle (B) Vertebral column (C) Skull (D) Sternum
9. **The latest method of vegetative propagation is:**
(A) Budding (B) Cuttings (C) Cloning (D) Bulbs
10. **E-Coli bacterium was created for synthesizing human growth hormone in:**
(A) 1955 (B) 1967 (C) 1970 (D) 1977
11. **The World Not Tobacco Day is observed every year on:**
(A) 31st March (B) 31st May (C) 31st July (D) 31st August
12. **The specific sequence of DNA nucleotides is copied in the form of messenger RNA nucleotides is known as:**
(A) Transcription (B) Translation (C) Transduction (D) Translocation

Lahore Board 2019 (Second Group)

Roll No.(in Figures): (in Words):

Maximum Marks: 48

SUBJECTIVE TYPE (PART - I)

Time Allowed :1.45 Hours

Q2. Write short answers to any FIVE (5) questions:

(5×2=10)

- (i) What is the difference between breathing and cellular respiration?
- (ii) What is pneumonia? Write its symptoms.
- (iii) What is meant by lung cancer? Write its two causes.
- (iv) What is called guttation?
- (v) What is meant by lithotripsy?
- (vi) What are two important functions of spinal cord?
- (vii) Differentiate between myopia and hypermetropia.
- (viii) What is paralysis? Write down its causes.

Q3. Write short answers to any FIVE (5) questions:

(5×2=10)

- (i) Differentiate between movement and locomotion.
- (ii) What is skeleton? Write one merit.
- (iii) Explain parthenogenesis with example.
- (iv) Write down procedure of tissue culture.
- (v) Differentiate between two methods of pollination.
- (vi) Differentiate between translation and transcription.
- (vii) What is difference between homozygous and heterozygous?
- (viii) Write two important processes for organic evolution.

Q4. Write short answers to any FIVE (5) questions;

(5×2=10)

- (i) Define ecosystem.
- (ii) What is deforestation? Give its two effects.
- (iii) What are pollutants? Give two examples.
- (iv) How cheese is formed?
- (v) How human growth hormone was obtained before genetic engineering?
- (vi) How terramycin developed?
- (vii) How sedative work?
- (viii) Differentiate between bactericidal and bacteriostatic antibiotics.

(PART - II)

Note: Attempt any TWO questions.

(2×9=18)

Q5. (a) Describe the two types of dialysis in detail.

4

(b) What is meant by neuron? Describe its types.

5

Q6. (a) Define joint and explain the types of joints with the help of examples.

4

(b) State any five methods of natural vegetative propagation.

5

Q7. (a) Explain producers and consumers with examples.

4

(b) Describe the basic steps in genetic engineering.

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