

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.

12

1. **Glucose molecule is broken into Pyruvic acid:**
(A) 5 (B) 3 (C) 2 (D) 6
2. **Drugs obtained from minerals is:**
(A) Morphine (B) Asiprin (C) Antitoxin (D) Iodinetincture
3. **The length of trachea is:**
(A) 12 cm (B) 14 cm (C) 16 cm (D) 18 cm
4. **The weight of human kidney is about:**
(A) 126 gm (B) 270 gm (C) 120 gm (D) 100 gm
5. **The name of gland present below the human neck region is:**
(A) Parathyroid (B) Thyroid (C) Adrenal gland (D) Pancrease
6. **The hormon which increases the quantity of calcium ions in blood is:**
(A) Adrenalin (B) Calcitonin (C) Parathermone (D) Thyroxin
7. **Number of bones in both hand is:**
(A) 33 (B) 80 (C) 54 (D) 126
8. **Ripened Ovary changed into:**
(A) Seed (B) Fruit (C) Flower (D) Zygote
9. **External fertilization is found in:**
(A) Amphibians (B) Mammals (C) Birds (D) Reptiles
10. **A cross in which only one traits studied at a time is called:**
(A) Dihybrid cross (B) True breeding (C) Monohybrid cross (D) Dominant
11. **Gene consists of:**
(A) RNA (B) mRNA (C) Protein (D) DNA
12. **Example of ectoparasite is:**
(A) Leech (B) Viruses (C) Tapwarm (D) Plasmodium

Rawalpindi 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 is double pneumonia?
- (ii) What is meant by passive smoking?
- (iii) What is lithotripsy?
- (iv) Explain peritoneal dialysis briefly?
- (v) What is loop of henle?
- (vi) Give function of frontal lobe.
- (vii) What is somatic nervous system?
- (viii) What is hypermetropia?

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

(5×2=10)

- (i) Describe roles of tendons and ligaments.
- (ii) Define bone. What is its function?
- (iii) Differentiate between Spermatogenesis and Oogenesis.
- (iv) Explain traits with examples.
- (v) How does AIDS spread?
- (vi) What is meant by nucleosomes?
- (vii) Define translation.
- (viii) Differentiate between Genotype and Phenotype.

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

(5×2=10)

- (i) Define community and population.
- (ii) What is the threat for Maldives due to ocean?
- (iii) What are the products of the two types of carbohydrate fermentation?
- (iv) Describe the uses of Gluceron in industries.
- (v) How gene of interest is isolated in genetic engineering?
- (vi) How did Edward Jenner use the vaccine?
- (vii) Name any two Narcotics obtained from opium.
- (viii) What is Social Stigma?

(PART - II)

Note: Attempt any TWO questions.

(2×9=18)

Q5. (a) Which are the bad effects of smoking?

4

(b) Write types of "Neurons" and also describe their functions.

5

Q6. (a) What is cartilage? Discuss its types.

4

(b) Describe any four methods of natural vegetative propagation.

5

Q7. (a) Write a detailed note on Carbon cycle.

4

(b) Describe any eight achievements of genetic engineering.

5

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.

12

Q1.

1. **Number of Hydrogen bonds between Adenine and Thymine is:**
(A) 1 (B) 2 (C) 3 (D) 4
2. **Primary source of energy for all ecosystems is:**
(A) Electricity (B) Sun (C) Fire (D) Nutrients
3. **Which one is fermented food:**
(A) Wheat flour (B) Powder milk (C) Vitamins (D) Yogurt
4. **The medicine obtained from mineral is:**
(A) Tincture iodine (B) Aspirin (C) Vaccine (D) Pencilline
5. **Stoma are abundantly present:**
(A) on upper epidermis of leaf (B) on stem
(C) in Xylem cells (D) in Phloem cells
6. **Secretions secreted by coniferes are called:**
(A) Gums (B) Mucilage (C) Resins (D) Latex
7. **Which lobe is concerned with hearing and smell:**
(A) Frontal (B) Temporal (C) Occipital (D) Parietal
8. **Which Scientist wrote three books on Ophthalmology?**
(A) Abn al Haytham (B) Ali Ibn Isa (C) Gregor Mendal (D) Andreas Vesalius
9. **Human both hands have bones:**
(A) 50 (B) 52 (C) 54 (D) 56
10. **The example of corms is:**
(A) Ferns (B) Ginger (C) Onion (D) Dasheen
11. **The female reproductive part of flower is:**
(A) Calyx (B) Corolla (C) Gynoecium (D) Androecium
12. **The branch of Biology in which we study about inheritance is called:**
(A) Genetics (B) Ecology (C) Morphology (D) Physiology

Rawalpindi 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 difference between inhalation and exhalation?
- (ii) What is Asthma? Write its symptoms.
- (iii) What is lithotripsy?
- (iv) What is kidney transplant?
- (v) Differentiate between Renal Cortex and Renal Medula.
- (vi) Differentiate between nervous co-ordination and chemical co-ordination.
- (vii) Define the terms hormone and endocrine system.
- (viii) Describe two important functions of spinal cord.

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

(5×2=10)

- (i) Differentiate between bone and cartilage.
- (ii) Define Hinge joints.
- (iii) Define Hypogean germination with an example.
- (iv) How spermatids are converted into sperms?
- (v) What is meant by external fertilization?
- (vi) Define Homozygous genotype.
- (vii) Write the names of four nitrogenous bases.
- (viii) Define trait.

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

(5×2=10)

- (i) What is meant by urbanization? Give its two reasons.
- (ii) Define symbiosis.
- (iii) Why are the transgenic organisms being developed?
- (iv) Write down the uses of formic acid.
- (v) What is meant by Alcoholic fermentation?
- (vi) Write down drugs obtained from minerals.
- (vii) What are cephalosporins? Write its uses.
- (viii) Define Vaccines.

(PART - II)

Note: Attempt any TWO questions.

(2×9=18)

Q5. (a) Describe osmoregulatory function of kidney.

4

(b) Write a note on structure, function and lobes of cerebrum.

5

Q6. (a) Write a note on disorders of skeletal system.

4

(b) Describe the advantage and disadvantage of vegetative propagation in plants.

5

Q7. (a) Write a note on acid rain.

4

(b) Explain objectives of Genetic Engineering.

5