

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. Major types of Bronchitis are:

- (A) 1 (B) 2 (C) 3 (D) 4

2. Waste Materials that are secreted by Coniferous trees:

- (A) Gums (B) Latex (C) Resins (D) Mucilage

3. Two Glands are situated above kidneys:

- (A) Adrenal (B) Parathyroid (C) Thyroid (D) Pancreas

4. A Pigment present in Rods:

- (A) Vitreous Humour (B) Rhodopsin (C) Iodopsin (D) Aqueous Humour

5. _____ prevent dislocation of bones at joints:

- (A) Collagen (B) Tendons (C) Ligaments (D) Cartilage

6. Ovule develops into:

- (A) Fruit (B) Seed (C) Endodermis (D) Pollen Sacs

7. The units of Gynoecium are called:

- (A) Sepals (B) Petals (C) Carpels (D) Stamens

8. The Genotype in which the Gene Pair contains two different Alleles are called:

- (A) Locus (B) Mutations (C) Homozygous (D) Heterozygous

9. The Ratio of Phenotype in Law of Independent Assortment is:

- (A) 9:3:1:4 (B) 9:3:3:1 (C) 9:3:1:3 (D) 9:3:2:2

10. A Recycling of One Tonne of paper can save _____:

- (A) 7 Trees (B) 17 Trees (C) 27 Trees (D) 37 Trees

11. Human Insuline Gene was transferred into:

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

12. Which of these reduce the possibility of Infections on Skin:

- (A) Disinfectants (B) Antibodies (C) Antiseptics (D) Antibiotics

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 Bronchitis? Write its symptoms.
- (ii) What is Pleural Membrane? Describe its role.
- (iii) Differentiate between Bronchi and Bronchioles.
- (iv) What is meant by Xerophytes? Give example.
- (v) What is meant by Renal Pelvis?
- (vi) Differentiate between Endocrine and exocrine Glands.
- (vii) Compare the functions of Hormones, Insuline and Glucagon.
- (viii) Write the functions of Rods and Cones.

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

- (i) Describe Spongy Bone.
- (ii) Define Reproduction and give names of two types.
- (iii) Why the Spores of Bacteria are called Endospore?
- (iv) Write Alternation of Generations in Plants.
- (v) Explain Translation.
- (vi) Write difference between Continuous and Discontinuous Variations.
- (vii) Define Codominance with example.
- (viii) Describe the role of Skeletal system.

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

- (i) Define Species.
- (ii) What are Primary Consumers? Give one example.
- (iii) Differentiate between Ectoparasite and Endoparasite.
- (iv) What is Alcoholic Fermentation?
- (v) List name of first four basic steps in Genetic Engineering.
- (vi) Differentiate between Pharmacology and Pharmacy.
- (vii) Differentiate between Hallucinations and Hallucinogens.
- (viii) What are Sedatives?

(PART - II)

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

- Q5. (a) Describe the structure of Kidney in detail. 4
- (b) Describe five components of Coordinated Action in detail. 5
- Q6. (a) What is Cartilage? Also explain the types of Cartilage. 4
- (b) Describe the Development and Structure of Seed. 5
- Q7. (a) Explain the Flow of Energy. 4
- (b) Describe the achievements of Genetic Engineering. 5

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Q1.

12

1. **The Larynx is also called this:**
(A) Trachea (B) Voice Box (C) Alveoli (D) Bronchioles
2. **It is formed due to condensation of water vapours on the plant surface:**
(A) Guttation (B) Transpiration (C) Dew (D) Sebum
3. **Processes that carry Nerve Impulses away from the Cell Body are called:**
(A) Axon (B) Dendrite (C) Mylin Sheath (D) Synapses
4. **It separates Middle Ear from Inner Ear:**
(A) Stapes (B) Malleus (C) Eustacian Tube (D) Oval Window
5. **It is the longest bone in our body:**
(A) Stapes (B) Skull (C) Thigh bone (D) Uncus
6. **These reproduce by Budding:**
(A) Planaria (B) Corals (C) Rhizopus (D) Tulips
7. **Ovary changes into this:**
(A) Seed (B) Flower (C) Fruit (D) Ovule
8. **A cross in which only one Trait is studied at a time is called:**
(A) Monohybrid Cross (B) Single Hybrid Cross
(C) Dihybrid Cross (D) Solohybrid Cross
9. **Part of DNA that contains the instructions for the synthesis of a particular protein is called:**
(A) Locus (B) Gene (C) Chromosome (D) Polysome
10. **Maldives might become Uninhabitable:**
(A) Within 10 Years (B) Within 100 Years (C) Within 500 Years (D) Within 1000 Years
11. **Aspergillus produces:**
(A) Formic Acid (B) Ethanol (C) Glycerol (D) Acrylic Acid
12. **He prompted the idea of Sterile Surgery for the first time:**
(A) Joseph Trot (B) Toseph Fisher (C) Joseph Lister (D) Joseph Espdin

Bahawalpur 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 meant by Stomata? Write their function.
- (ii) What is meant by Lenticels?
- (iii) Write down about structure of Trachea.
- (iv) What are Succulent Organs? Give example.
- (v) Define Nephron and write name of its two main parts.
- (vi) What is meant by Aqueous Humour?
- (vii) What is meant by Tapetum?
- (viii) Define Hormone. Also write name of two Hormones.

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

(5×2=10)

- (i) Differentiate between Origin and Insertion.
- (ii) Write the two functions of Ligaments.
- (iii) Differentiate between Sexual and Asexual Reproduction.
- (iv) Describe the method of Grafting.
- (v) Define Dormancy.
- (vi) State Mendel's Law of Independent Assortment.
- (vii) What is Codominance?
- (viii) Differentiate between Breeds and Cultivars.

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

(5×2=10)

- (i) Write down two effects of Global Warming.
- (ii) Define Ectoparasites and give two examples.
- (iii) What is meant by Predation? Give example.
- (iv) Write down two objectives of Genetic Engineering.
- (v) State the role of Biotechnology in the field of Food and Agriculture.
- (vi) What are Antibiotics? Write its use.
- (vii) Write down two effects of Marijuana.
- (viii) What is meant by Vaccine?

(PART - II)

Note: Attempt any TWO questions.

(2×9=18)

Q5. (a) Describe the Osmoregulatory Function of Kidney.

4

(b) Describe the types of Feedback Mechanism.

5

Q6. (a) What is Cartilage? Explain its three types.

4

(b) Write in detail two methods of Artificial Vegetative Propagation.

5

Q7. (a) Describe the effects of Air Pollution.

4

(b) What is Fermenter? Explain Batch and Continuous Fermentation.

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