

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. **Larynx is a box made up of:**
(A) Bone (B) Cartilage (C) Adipose (D) Muscles
2. **Latex is released by:**
(A) Rubber Plant (B) Keeker (C) Lady finger (D) Brasica
3. **Temporal lobe is concerned with:**
(A) Control of skeletal muscle (B) Visual information
(C) Hearing and smell (D) Fear
4. **Owl is not able to see during day time due to deficiency of _____.**
(A) Rod cell (B) Cone cell (C) Fovea (D) Retina.
5. **The part of bone in which blood vessels are found:**
(A) Spongy bone (B) compact bone (C) Bone marrow (D) None
6. **Vegetative propagation in onion is done by:**
(A) Stem tuber (B) Bulb (C) Rhizome (D) Corm
7. **Reproductive part of plant is:**
(A) Stem (B) Leaf (C) Flower (D) Root
8. **Albinism is a _____ trait.**
(A) Dominant (B) Recessive
(C) Co - dominant (D) Incomplete dominant
9. **The no. of pea plants which Mendel used in his experiments.**
(A) 2700 (B) 2800 (C) 28000 (D) 3700
10. **Mosquitoes, lice and leaches are examples of:**
(A) Ectoparasite (B) Endoparasite (C) Obligate parasite (D) Both A and B
11. **An example of Antiviral protein:**
(A) Insulin (B) Pepsinogen (C) Interferon (D) Zymogen
12. **The medicines which reduce pain are called:**
(A) Antibiotics (B) Sedatives (C) Vaccines (D) Analgesics

Sargodha Board 2018 (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) Differentiate between acute and chronic bronchitis.
- (ii) Write down any four symptoms of pneumonia.
- (iii) What do you mean by peritoneal dialysis?
- (iv) What is the difference between transpiration and guttation?
- (v) What is the process of lithotripsy?
- (vi) Define stimuli. Also give example.
- (vii) Define coordination. Also write the names of its two types.
- (viii) Why iodine is essential for us?

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

- (i) Describe the Role of Skeletal System.
- (ii) Define Origin and Insertion.
- (iii) Define Reproduction.
- (iv) Define vegetative propagation.
- (v) Differentiate between sporophyte and gametophyte generation.
- (vi) Define genetics.
- (vii) Define translation.
- (viii) What do you mean by Incomplete dominance.

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

- (i) Differentiate between ectoparasites and endoparasites.
- (ii) What is meant by commensalism.
- (iii) What is single cell protein.
- (iv) What is urokinase? Write its use.
- (v) Write the names of two industrial products made through fermentation.
- (vi) What is meant by pharmaceutical drug.
- (vii) What are analgesics. Give example.
- (viii) Differentiate between antibiotics and antiseptics.

(PART - II)

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

- Q5. (a) How many types of Bronchitis? Describe in detail.** 5
- (b) Write partsof internal ear? How the process of Hearing takes place?** 4
- Q6. (a) Write a note on types of joints. Also give their examples.** 5
- (b) Describe four ways of natural vegetative propagation.** 4
- Q7. (a) What is Pollution? Explain effects of air pollution.** 5
- (b) Give Achievements of Genetic Engineering.** 4

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- Q1.
- The enzyme which is used to cut the gene of interest is:
(A) Ligase (B) Amylase (C) Lipase (D) Endonuclease
 - Foxglove is a:
(A) Purple flowered plant (B) Orange flowered plant
(C) Black flowered plant (D) Yellow flowered plant
 - Every year, the World No Tobacco Day is celebrated on:
(A) 31st of May (B) 31st of July (C) 31st of August (D) 31st of January
 - The tube between Kidney and Urinary bladder is:
(A) Urethra (B) Ureter (C) Renal tubule (D) Nephron
 - This lobe concerned with hearing and smell:
(A) Frontal (B) Parietal (C) Occipital (D) Temporal
 - Rods contain a pigment:
(A) Aqueous Humour (B) Rhodopsin (C) Iodopsin (D) Vitreous Humour
 - Numbers of Cranial bones are:
(A) 24 (B) 206 (C) 08 (D) 12
 - An example of insect pollinated flower is:
(A) Grass (B) Hazel (C) Willow (D) Rose
 - The female reproductive part of flower is:
(A) Gynoecium (B) Androecium (C) Petals (D) Sepals
 - The part of DNA that contains the instructions for the synthesis of a particular protein is known as:
(A) Traits (B) Alleles (C) Gene (D) Chromosome
 - Person with blood group B has genotype.
(A) $I^A I^A$ (B) $I^B I^B$ (C) $I^A I^B$ (D) $i i$
 - An example of endoparasite is:
(A) Mosquitoes (B) Leech (C) Lice (D) Plasmodium

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 Pneumonia? Write its symptoms.
- (ii) Write function of Hair and Mucous in the nose.
- (iii) Define osmosis.
- (iv) What is the role of skin in controlling temperature of body?
- (v) How do the plants excrete extra water from their bodies?
- (vi) Describe the Pupil reflex in dim and bright light.
- (vii) Why owl is not able to see during day time?
- (viii) Write name of two disorder of eye.

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

(5×2=10)

- (i) What are hinge? Write two examples.
- (ii) Differentiate between biceps and triceps Muscles.
- (iii) Define parthenogenesis. Write two examples.
- (iv) Define alternation of generation in plants.
- (v) Define Multiple fission and give an example.
- (vi) Define Transcription.
- (vii) Differentiate between Dominant and Recessive Allele.
- (viii) What is meant by Artificial Slection.

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

(5×2=10)

- (i) Define species.
- (ii) What are decomposers give example.
- (iii) Define biotechnology.
- (iv) What is meant by novel protein or minifood:
- (v) What is the full name of GMO.
- (vi) What is a drug.
- (vii) Write some medicine obtained from plant and fungi.
- (viii) Which organ is affected by the use of expired medicine.

(PART - II)

Note: Attempt any TWO questions.

(2×9=18)

Q5. (a) Describe the functioning of Kidney.

5

(b) Explain Nerve cell or Neuron with diagram.

4

Q6. (a) Write a note on the role of biceps and triceps muscles.

5

(b) Explain female reproductive system of rabbit.

4

Q7. (a) Define symbiosis and also describe different types of symbiosis with examples.

5

(b) Write a note on alcoholic and lactic acid fermentation.

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