

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. **The sound Production Box is called:**

- (A) Trachea (B) Bronchi (C) Alveoli (D) Larynx

2. **This Lobe contains Sensory Areas that receive impulses from Skin:**

- (A) Frontal (B) Parietal (C) Occipital (D) Temporal

3. **Processes that carry Nerve Impulses away from the cell body are:**

- (A) Dendrites (B) Myelin Sheath (C) Synapses (D) Axons

4. **The functional unit of Kidney is called:**

- (A) Axon (B) Neuron (C) Cortex (D) Nephron

5. **Some bones produce:**

- (A) Hormones (B) Oxygen (C) Blood Cells (D) Mucous

6. **DNA wraps around histone protein and forms round structures:**

- (A) Nucleotide (B) Nucleus (C) Nucleosome (D) Nucleoside

7. **In rabbit, sperms are produced in:**

- (A) Scrotum (B) Urethra
(C) Seminal vesicles (D) Seminiferous Tubules

8. **Male reproductive part of flower is:**

- (A) Calyx (B) Androecium (C) Corolla (D) Gynoecium

9. **Branch of Biology in which we study about inheritance:**

- (A) Physiology (B) Ecology (C) Genetics (D) Pharmacology

10. **Joseph Lister introduce an Acid to clean the wounds:**

- (A) Carbolic acid (B) Hydrochloric acid (C) Sulphuric acid (D) Nitric acid

11. **Which one from these is an Antiviral Protein:**

- (A) Insulin (B) Urokinase (C) Interferon (D) Thymosin

12. **Which plant is not a carnivores:**

- (A) Sundew (B) Cactus (C) Pitcher plant (D) Venus flytrap

Bahawalpur 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) What do you mean by Kidney Stone?
- (ii) Define homeostasis and give an example.
- (iii) Differentiate between renal corpuscle and renal tubule.
- (iv) Write two bad effects of smoking.
- (v) What is Bronchitis? Write its symptoms.
- (vi) Define coordinators and give example.
- (vii) Differentiate between Sensory and Motor Neurons.
- (viii) Write down the functions of Thalamus.

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

- (i) State the role of Skeletal System.
- (ii) Differentiate between Origin and Insertion.
- (iii) Define Follicles. What is present its inside?
- (iv) Write down the main causes of AIDS.
- (v) What is meant by External Fertilization? Give an example.
- (vi) What is meant by Translation?
- (vii) Differentiate between Monohybrid Cross and Dihybrid Cross.
- (viii) What is meant by Continuous Variations? Give an example.

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

- (i) Define species.
- (ii) Give two examples of each Ectoparasites and Endoparasites.
- (iii) Who produced Dolly and when?
- (iv) Which Enzymes are used to Cut and attach the Genes?
- (v) When Human Growth hormone was prepared and by which Miro-organism?
- (vi) Which means are used for medicinal drugs?
- (vii) Write the use of diamorphine.
- (viii) Define vaccines.

(PART - II)

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

- Q5. (a) Give osmoregulatory function of kidney. 5
(b) Explain reflex action. 4
- Q6. (a) What is meant by Skeleton? Describe the components of human skeleton. 5
(b) Write four types of natural vegetative propagation. 4
- Q7. (a) Describe the effects of water pollution. 5
(b) Describe two types of fermenter. 4

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Q1.

12

1. **The amount of carbondioxide in expired air is:**
(A) 21% (B) 4% (C) 16% (D) 0.04%
2. **The example of stimulus is:**
(A) ear (B) brain (C) cold (D) muscles
3. **The length of spinal cord is about:**
(A) 40 mm (B) 40 nm (C) 40 cm (D) 40 inch
4. **The maintenance of internal body temperature is called:**
(A) osmoregulation (B) excretion (C) thermoregulation (D) homeostasis
5. **Which disease can be caused due to deficiency of estrogen hormone:**
(A) gout (B) osteoporosis
(C) rheumatoid arthritis (D) osteoarthritis
6. **In four o clock plants which colour allele does not present:**
(A) red (B) white (C) pink (D) black
7. **In which process of reproduction buds are produced:**
(A) fragmentation (B) regeneration (C) budding (D) binary fission
8. **Which animal is not able to reproduce in summer months:**
(A) monkey (B) dog (C) rabbit (D) cat
9. **How many hydrogen bonds are present in between cytosine and guanine:**
(A) 1 (B) 2 (C) 3 (D) 4
10. **Reduce the possibilities of infections on skin:**
(A) antibiotics (B) antiseptics (C) analgesics (D) disinfectants
11. **The enzyme used for joining Gene is:**
(A) lipase (B) ligase (C) amylase (D) endonuclease
12. **The thickness of biosphere is about:**
(A) 15 Km (B) 20 Km (C) 25 Km (D) 30 Km

Bahawalpur Board 2018 (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) Write four symptoms of bronchitis.
- (ii) What is meant by epiglottis?
- (iii) Differentiate between guttation and dew.
- (iv) Differentiate between renal cortex and renal medulla.
- (v) What is meant by lithotripsy?
- (vi) Where midbrain lies? Write down its function.
- (vii) What is nerve? Write name of its three types.
- (viii) What is spinal cord? Give its length.

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

(5×2=10)

- (i) Differentiate between origin and insertion of skeletal muscle.
- (ii) Define antagonism.
- (iii) Describe the process of reproduction in hydra and corals.
- (iv) How reproduction of plants take place by bulbs? Give any two examples.
- (v) What is micropyle? Describe its function.
- (vi) Enlist the nitrogenous bases present in double helix of DNA.
- (vii) Define Mendel's Law of segregation.
- (viii) Differentiate between breeders and cultivar.

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

(5×2=10)

- (i) Write biotic and abiotic factors of ecosystem.
- (ii) What are the effects of air pollution?
- (iii) What is meant by genetic engineering?
- (iv) For which purposes microbes are used?
- (v) What is the use of thymosin?
- (vi) What are the effects of hallucinogens? Write name of one hallucinogen.
- (vii) How cephalosporins work? For which diseases these are used?
- (viii) Which medicines are used for lowering the blood pressure?

(PART - II)

Note: Attempt any TWO questions.

(2×9=18)

Q5. (a) Explain the types of dialysis.

5

(b) Explain the thyroid and adrenal glands.

4

Q6. (a) Explain the components of human skeleton.

5

(b) Describe the two methods of artificial vegetative propagation.

4

Q7. (a) Describe the effects of water pollution in detail.

5

(b) Describe the important industrial products which are made by the help of fermentation.

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