

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. Which drug is a cardiotoxic?
(A) Morphine (B) Digitalis (C) Aspirin (D) Diazepam
2. Who introduced the method of single cell protein?
(A) Pasteur (B) Joseph Lister (C) Scrimshaw (D) Ian Wilmut
3. Which product is formed during industrial nitrogen fixation?
(A) Urea (B) Ammonia (C) Nitrite (D) Carbon dioxide
4. Cytosine always pairs with.
(A) Guanine (B) Thymine (C) Adenine (D) Uracil
5. In artificial selection, the bred animals are called:
(A) Cultivars (B) Hybrids (C) Breeds (D) Varieties
6. Regeneration is common in:
(A) Annelides (B) Mammals (C) Echinoderms (D) Arthropods
7. The example of stem tuber is:
(A) Potato (B) Dasheen (C) Onion (D) Water lilly
8. The cells of cartilage are called:
(A) Osteocytes (B) Monocytes (C) Lymphocytes (D) Chondrocytes
9. The tympanum belongs to which part of ear?
(A) External ear (B) Middle ear (C) Internal ear (D) Vestibule
10. Testes and ovaries are called:
(A) Glands (B) Gonads (C) Gametes (D) Embryo
11. The example of xerophytes is:
(A) Water lilly (B) Funaria (C) Sea grass (D) Cactus
12. Percentage of oxygen in the inspired air is:
(A) 11% (B) 21% (C) 31% (D) 41%

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 importance of C-shaped cartilagenous rings in the wall of trachea?
- (ii) What is the location of stomata? Write their function.
- (iii) Write two effects of smoking on circulatory system.
- (iv) What is meant by metabolic waste?
- (v) Write two problems after kidney transplant.
- (vi) Define nerve impulse.
- (vii) What are the two functions of meninges?
- (viii) What is meant by hypermetropia?

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

- (i) What is meant by antagonism?
- (ii) Differentiate between compact bone and spongy bone.
- (iii) Define vegetative propagation. Also write the names of its two methods.
- (iv) Define alternation of generation.
- (v) Differentiate between spermatogenesis and oogenesis.
- (vi) Define the term genotype. Also write the names of its two types.
- (vii) What is meant by Punnett square?
- (viii) Differentiate between dominant allele and recessive allele.

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

- (i) Define food chain and give example.
- (ii) Write the difference between biotic and abiotic.
- (iii) Write the names of two carnivorous plants.
- (iv) Write any two uses of fermentation.
- (v) Define fermentation. Also write names of its two types.
- (vi) Name two narcotics obtained from poppy plant.
- (vii) What are the uses of carbolic acid in surgery?
- (viii) Write the losses of taking heavy amount of Marijuana.

(PART - II)

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

- Q5. (a) Write the osmoregulatory function of kidney in detail. 4**
- (b) Explain coordinators and effectors. 5**
- Q6. (a) Write a detailed note on arthritis. 4**
- (b) Discuss artificial propagation in detail. 5**
- Q7. (a) Write a detailed note on nitrogen cycle. 4**
- (b) What is fermenter? Discuss on batch fermentation and continuous fermentation. 5**

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Q1.

12

1. **The male and female gametes are produced in specialized organs are called:**
(A) Gametogenesis (B) Zygote (C) Placenta (D) Gonads
2. **The matrix of cartilage also contains fibers:**
(A) Glucagon (B) Insulin (C) Collagen (D) Lacuna
3. **The union of several axons that enveloped by a covering made of lipids is called:**
(A) Meninges (B) Nerve (C) Cerebrum (D) Dendrites
4. **The unit of nervous system is:**
(A) Nephron (B) Receptors (C) Neuron (D) Nucleus
5. **Waste material that are secreted by rubber plant:**
(A) Gums (B) Latex (C) Resins (D) Mucilage
6. **Larynx is made up of:**
(A) Glottis (B) Trachea (C) Cartilage (D) Alveoli
7. **Which inhibits or kills bacteria within or on the body?**
(A) Disinfectants (B) Antibodies (C) Antiseptics (D) Antibiotics
8. **Organisms with modified genetic set up are called:**
(A) Fermentation (B) Transition organism
(C) Transgenic organism (D) Transmitter organism
9. **Formation of nitrites and nitrates from ammonia is called:**
(A) Denitrification (B) Ammonification (C) Nitrification (D) Nitrogen fixation
10. **The genotype in which the gene pair contains identical alleles are called:**
(A) Locus (B) Mutations (C) Homozygous (D) Heterozygous
11. **Hydrogen bonds present between adenine and thymine:**
(A) 1 (B) 2 (C) 3 (D) 4
12. **Some cells of ovary prepare structures called:**
(A) Follicles (B) Seminal vesicles (C) Seminiferous tubules (D) Vas deferens

Faisalabad 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) Define epiglottis. Also write its function.
- ii) Differentiate between stomata and air spaces.
- iii) What is inspiration and expiration?
- iv) What is kidney transplant?
- v) What is hydrophytes? Give an example.
- vi) Differentiate between aqueous humour and vitreous humour.
- vii) Define coordination.
- viii) Differentiate between stimuli and response.

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

(5×2=10)

- (i) Compare compact bone with spongy bone.
- (ii) What is meant by arthritis? How it can be treated?
- (iii) Define suckers and give example.
- (iv) What is double fertilization? In which plants it occurs?
- (v) What is germination? Give its types.
- (vi) What are varieties or cultivars?
- (vii) Define incomplete dominance and give example.
- (viii) Write advantages of artificial selection.

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

(5×2=10)

- (i) What is meant by biosphere?
- (ii) Differentiate between primary consumers and secondary consumers.
- (iii) Define commensalism. Also write an example.
- (iv) Write two uses of biotechnology in the field of medicine.
- (v) Write the names of two vectors used in genetic engineering.
- (vi) What are addictive drugs?
- (vii) What is the use of sedatives? Write an example of sedatives.
- (viii) Differentiate between bactericidal and bacteriostatic antibiotics.

(PART - II)

Note: Attempt any TWO questions.

(2×9=18)

Q5. (a) How plants remove extra carbon dioxide and water?

4

(b) Write a note on Paralysis and Epilepsy.

5

Q6. (a) Explain muscles and movement.

4

(b) Describe development and structure of seed.

5

Q7. (a) What are consumers? Explain their different groups.

4

(b) Define fermenter. Also explain its ways.

5