

<b>BIOLOGY (New) Class 10<sup>th</sup></b> <b>Time: 20 Minutes</b> <b>Marks: 12</b> <b>Multiple Choice Questions</b> <b>01 Mark for each</b>	<b>Paper Code</b> <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3	Roll No. of the Student						
		Serial No. Of the Answer Book _____						

### SECTION-A

Note:

- 1) Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.
- 2) Fill the circle (A)(B)(C)(D), which one is correct with blue or black ball point in separate OMR Sheet like
- 3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

- I.i. Which of the following enzyme acts like a paste molecule to join DNA fragments?
  - (A) Nuclease
  - (B) Protease
  - (C) Lipase
  - (D) Ligase
- ii. \_\_\_\_\_ is the science of preparation and dispensing of drugs \_\_\_\_\_.
  - (A) Pharmacology
  - (B) Pharmacy
  - (C) Biotechnology
  - (D) Genetic Engineering
- iii. Alcoholic fermentation occurs in \_\_\_\_\_.
  - (A) Bacteria
  - (B) Fungi
  - (C) Yeast
  - (D) Algae
- iv. The part of the earth where life exists is called \_\_\_\_\_.
  - (A) Ecosystem
  - (B) Biosphere
  - (C) Atmosphere
  - (D) Hydrosphere
- v. A \_\_\_\_\_ is the fundamental Physical and functional unit of heredity \_\_\_\_\_.
  - (A) Cell
  - (B) Nucleus
  - (C) Chromosome
  - (D) Gene
- vi. A flower is made-up of specialized leaves, which are present on the swollen tip called \_\_\_\_\_.
  - (A) Calyx
  - (B) Corolla
  - (C) Androecium
  - (D) Receptacle
- vii. Skeleton is defined as the \_\_\_\_\_ of hard structures that provide Physical support and protection for the bodies of animals \_\_\_\_\_.
  - (A) Combination
  - (B) Framework
  - (C) Collection
  - (D) Union
- viii. At the posterior pole of eye, opposite to the lens, there is a yellowish spot called \_\_\_\_\_.
  - (A) Blind spot
  - (B) Optic nerue
  - (C) Fovea
  - (D) Cornea
- ix. In nervous coordination, muscles and glands are the main \_\_\_\_\_.
  - (A) Receptors
  - (B) Coordinators
  - (C) Effectors
  - (D) Responses
- x. Coniferous trees excrete their wastes in the form of \_\_\_\_\_.
  - (A) Rubber
  - (B) Mucilage
  - (C) Latex
  - (D) Resins
- xi. The term internal environment and external environment were coined by \_\_\_\_\_.
  - (A) Claude Bernard
  - (B) Gregor Mendel
  - (C) Charles Darwin
  - (D) Joseph Lister
- xii. \_\_\_\_\_ are thin walled and provide surface for gaseous exchange.
  - (A) Bronchi
  - (B) Alveoli
  - (C) Diaphragm
  - (D) Pleura

**Note: Time allowed for section B and C is 2 hours and 40 minutes.**

**SECTION "B"**

**Marks: 32**

**II. Attempt any EIGHT Parts out of the following. Each Part carries equal marks.**

- i. Define Respiration, Gaseous exchange, Breathing and Diffusion.
- ii. Classify plants on the basis of water availability. Give their any two characteristics and one example each.
- iii. Write short note on Spinal cord.
- iv. Write short note on Pancreas.
- v. What is Bone? Briefly describe its structure.
- vi. What is Pollination? Briefly describe its types.
- vii. Write short note on Oogenesis.
- viii. Write short note on Artificial selection.
- ix. What is Pollution? Name its types.
- x. Write short note on gene Cloning.
- xi. Briefly describe the Physiological Symptoms of drug addiction.

**SECTION "C"**

**Marks: 21**

**Note: Attempt any THREE questions of the following. Each question carries equal Marks.**

- |      |   |   |
|------|---|---|
| III. | (a) What is Eye?  | 2 |
|      | (b) Describe and Draw the structure of human eye.                     | 5 |
| IV.  | (a) What is Skeleton?   | 2 |
|      | (b) Describe in detail the skeletal system of humans.                 | 5 |
| V.   | (a) Describe in detail the sources of variations.                     | 5 |
|      | (b) Differentiate between continuous and Discontinuous variations.    | 2 |
| VI.  | (a) What is Genetic Engineering?                                      | 2 |
|      | (b) Describe in detail the major Achievements of Genetic Engineering. | 5 |