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| **Class** | 10th May | **Paper No.** | 23 | **Date** | 20-02-2024 | **Time Allowed**  **2:00 h** |
| **Subject** | Biology | **Total Marks** | 60 | **Day** | Tuesday |
| **Syllabus** | Full Book | | | | | |
| **Name** |  | | | | **Roll No.** |  |

**PAPER OBJECTIVE**

Note: You have four choices for each question as A, B, C and D. The choice you think is correct. Use marker or pen to tick the option. Cutting or Tick two or more options will result in zero mark in that question

**Q.1 Choose the correct option. (12x1=12)**

1. Narrow opening at the floor of pharynx which leads to larynx:

(A) Epiglottis (B) Glottis (C) Nasal Cavity (D) Nostril

1. What are the leading causes of kidney failure?

(A) Diabetes mellitus (B) Hypertension (C) Both a and b (D) None of these

1. Spinal cord is the continuation of:

(A) Medulla oblongata (B) Thalamus (C) Hypothalamus (D) Hippocampus

1. If the production of somatotrophin is increased during growth, this leads to:

(A) Dwarfism (B) Acromegaly (C) Gigantism (D) Diabetes

1. The end of muscle attached with immovable bone is called:

(A) Insertion (B) Origin (C) Extension (D) Flexion

1. Spores are enclosed in thick walled structure called:

(A) Bulb (B) Corm (C) Cyst (D) Hyphae

1. The leaflets of corolla are called:

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

1. Date of birth of Charles Darwin:

(A) 1802 (B) 1808 (C) 1809 (D) 1810

1. Since 1800, the amount of carbon dioxide in atmosphere has increase up to:

(A) 20% (B) 25% (C) 30% (D) 35%

1. Acid rain contains:

(A) Sulphuric acid (B) Nitric acid (C) Both a & b (D) None of these

1. Who convinced the scientific community that all fermentations are the result of microbial activity?

(A) Alexander Fleming (B) Joseph Lister (C) Louis Pasteur (D) Edward Jenner

1. Medicine obtained from cactus:

(A) Morphine (B) Codeine (C) Mescaline (D) Tetracycline

**PAPER SUBJECTIVE**

**SECTION I**

**Q.2 Give short answers to any FIVE of the following parts. (5x2=10)**

1. What are alveoli?
2. What is the difference between acute and chronic bronchitis?
3. What are halophytes?
4. What is renal pelvis?
5. What are the causes of formation of kidney stones?
6. Define nerve impulse.
7. What are the functions of frontal lobes?
8. What is the function of Eustachian tube?

**Q.3 Give short answers to any FIVE of the following parts. (5x2=10)**

1. What is the contribution of Andreas Vesalius?
2. What is the difference between biceps and triceps?
3. What are the disadvantages of vegetative propagation?
4. Write four characters of wind pollinated flowers.
5. What is cervix?
6. What are homologous chromosomes?
7. What are alleles?
8. What are the main sources of variations in sexually reproducing populations?

**Q.4 Give short answers to any FIVE of the following parts. (5x2=10)**

1. Define food chain.
2. What are bio-geochemical cycles?
3. What is the difference between ectoparasites and endoparasites?
4. Explain the role of biotechnology in the field of medicine.
5. What is the use of acrylic acid?
6. Name two drugs obtained from animals.
7. Define antibiotics.
8. What are sulphonamides?

**SECTION II**

**Attempt any TWO of the following questions.**

**Q.5**

**(a)** Describe the structure of nephron. **5**

**(b)** Write a note on adrenal gland. **4**

**Q.6**

**(a)** Write a note on cartilage. **5**

**(b)** Explain spermatogenesis with labeled diagram. **4**

**Q.7**

**(a)** Write a note on sources of medicinal drugs. **5**

**(b)** Write a note on single cell protein. **4**