**SET A**

Class IX PA II

Biology Section

1. Elephant is a multicellular animal. Justify **1 Mark**
2. Elaborate term deplasmolysis. **1 Mark**

**OR**

Explain term osmosis.

1. Cell is the basic structural and functional unit of life. Explain. **1 Mark**

**OR**

Xylem and phloem are complex permanent tissues. Give reason.

1. With an example, explain antibiotics? **1 Mark**
2. State the main function of xylem in plants. **1 Mark**
3. Which of the following tissues has dead cells? **1 Mark**

(a) Parenchyma (b) Sclerenchyma

(c) Collenchyma (d) Epithelial tissue

1. Cartilage is not found in **1 Mark**

(a) nose (b) ear

(c) kidney (d) larynx

1. Read the following and answer any four questions from 8 (1) to 8 (5). **4 Marks**

*Diseases is a condition of being uncomfortable. Diseases change one or more systems in our body which later will give rise to many signs and symptoms. Cough, fever, breathlessness, headache, vomiting, loose motions, inflammation, unconsciousness, and pain in body parts are some of the common signs and symptoms of disease. Based on duration of disease suffered by a patient, disease can be acute disease or chronic disease. On the basis of causes of diseases, diseases can be categorised as non-infectious diseases and infectious diseases.*

*Doctors diagnose diseases on the basis of signs, symptoms, laboratory tests, imaging technologies; like x-ray films, CT scan, MRI, etc. Doctors treat diseases by prescribing antibiotics, antiviral medicines, anti-protozoal drugs, immune boosters and other medicine. Medication reduces symptoms or effects of diseases and kill the causative agents. Doctors also advice patients to get bed rest and eat nutritious food.*

1. **Assertion:** CoVID-19 is a viral disease.

**Reason:** CoVID-19 is caused by virus

1. Both assertion and reason are true, and reason is the correct explanation of assertion.
2. Both assertion and reason are true, but reason is not the correct explanation of assertion.
3. Assertion is true but reason is false.
4. Both assertion and reason are false.
5. Choose the wrong statement
6. Medication is a principle to treatment of disease.
7. Doctors diagnose diseases on the basis of signs and symptoms.
8. Diseases bring change one or more systems of our body for better health
9. Eating nutritious food is good for health.
10. Which one of the following is an example of infectious disease?
11. CoVID-19
12. Lung Tuberculosis
13. Cancer
14. Both a and b
15. Which of the following is non-infectious disease?
16. CoVID-19
17. Lung Tuberculosis
18. Cancer
19. Both a and b
20. **Assertion:** Medication is a principle to treatment of disease.

**Reason:** Antibiotics kills pathogenic fungi and bacteria

1. Both assertion and reason are true, and reason is the correct explanation of assertion.
2. Both assertion and reason are true, but reason is not the correct explanation of assertion.
3. Assertion is true but reason is false.
4. Both assertion and reason are false.

**SECTION B**

1. Mention the importance of chloroplast and leucoplast in plant cells. **2 Marks**

**OR**

State the functions of smooth endoplasmic reticulum and rough endoplasmic reticulum.

1. Enlist at least four causes of diseases. **2 Marks**
2. Draw a well labelled diagram of stomata in dicot leaf showing guard cells.

**2 Marks**

**Section C**

1. Distinguish between meristematic tissue and permanent tissue. **3 Mark**

OR

Differentiate between voluntary and involuntary muscles.

1. What precautions will you take to justify “prevention is better than cure”?

**3 Mark**

**Section D**

1. Why is immune system essential for our health? **5 Mark**

**OR**

Health does not simply mean ‘absence of disease’ or ‘physical fitness’. Justify