

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. Why do plants not need a specialized respiratory system?
- ii. What is the role of skin in Thermoregulation?
- iii. State the function of flexors and extensors.
- iv. How do reflex action work in human beings?
- v. Write any four characters of insect pollinated flowers.
- vi. Why do seeds need water and oxygen for germination?
- vii. Define fermenter write only three advantages of a fermenter.
- viii. Differentiate between food chain and food web.
- ix. Discuss the advantages of Biotechnology in the field of Agriculture.
- x. Differentiate between antibiotics and vaccines.
- xi. How can crossing brings variations?

SECTION "C"

Marks: 21

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

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| III. | (a) What is Skeleton? Discuss Axial Skeleton in human beings? | 4 |
| | (b) Define following terms. | 3 |
| | i) Population ii) Community iii) Ecosystem | |
| IV. | (a) Describe the different types of joints. | 4 |
| | (b) Explain Gametogenesis. | 3 |
| V. | (a) Explain the law of independent Assortment with the help of Example. | 4 |
| | (b) What are Hallucinogenes? Write their effects on body. | 3 |
| VI. | (a) What is cellular respiration? Discuss mechanism of Breathing? | 4 |
| | (b) Describe the process of Urine formation. | 3 |