

**End Semester/Reappear (Semester I) Examination December 2022**

**Programme: B. Sc. (Hons.) Agriculture**

**Course: Introductory Biology**

**Course Code: 13A.110**

**Enrollment No: \_\_\_\_\_**

**Full Marks: 50**

**Time: 2 Hrs.**

**Section I**

**1. Short Answer type questions. Answer any four.**

**4 x 5 = 20**

- a. What is seed germination? How many types of seed germination are there? Describe.
- b. Differentiate between cell wall and cell membrane.
- c. Name the floral parts of an angiosperm. Also, mention their arrangements.
- d. Explain briefly antibiotic resistance observed in bacteria in light of Darwinian selection theory.
- e. What is Stem? Differentiate between strong stem and weak stem. Also write down the functions of the stem.
- f. What are five-kingdom classification? Also explain the basis for grouping organisms into five kingdom classification.

**Section II**

**Long answer type questions. Answer any two.**

**2 x 15 = 30**

2. Elaborate in detail about characteristics and importance of Fabaceae family with suitable diagrams and floral formula.
3. Evaluate the theory of chemical evolution. Analyze the different evidences of evolution with suitable examples.
4.
  - a. Describe the industrial mechanism.
  - b. Describe the role of micro-organisms in agriculture.
5.
  - a. Discuss about Inflorescence. Write about various types of inflorescences using suitable diagram.
  - b. Write short notes on:
    - i) Binomial nomenclature
    - ii) Seed germination percentage

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