

## 2024(Backlog)

*Time : 3 hours*

*Full Marks : 60*

*Pass Marks : 24*

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

*Answer from both the Groups as directed.*

### **Group – A**

#### **(Compulsory)**

1. Answer the following questions : 1×10 = 10
  - (a) What is Adcrustation ?
  - (b) Define Organogenesis.
  - (c) What do you understand by the term Xerophytes ?
  - (d) What is Quiescent centre ?

- (e) What are Tyloses ?
- (f) Define the term phloem.
- (g) Mention the function of pits and plasmodesmata.
- (h) What are the differences between Sapwood and Heartwood ?
- (i) What are Lenticels ?
- (j) Write down the function of stomata.

2. Describe, in brief, about Kranz anatomy. 5

**OR**

What are Ergastic substances ?

**Group - B**

Answer any **three** questions of the following :

15×3 = 45

- 3. What are Hydrophytes ? Give an account of anatomical adaptations with reference to hydrophytes.
- 4. Describe, in brief, about the three tissue systems in plant.

MO - 88/3

(2)

Contd.

- 5. Discuss the concept of shoot apex organization.
- 6. What is Secondary growth ? Highlight the process of secondary growth in dicot stem with suitable diagrams.
- 7. Define Vascular bundle. Describe the different types of vascular bundles found in plants with the help of suitable diagrams

**OR**

Write short notes on any **two** of the following :

- (a) Epidermal tissue system
- (b) Early and late wood
- (c) Development and composition of periderm
- (d) Stomata

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MO - 88/3 (200)

(3)

UESE(III) — Bot  
(CC - 5)