



Time : Three Hours]

[Maximum Marks : 80

**Note :—** (1) There are **seven** questions in all.

(2) Question No.1 is compulsory and carries **8** marks.

(3) Question Nos. **2—7** carry equal marks.

(4) Draw neat and well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

(i) The modification of stem in Ginger is \_\_\_\_\_ . ½

(ii) The root of *Lyginopteris oldhamia* is called \_\_\_\_\_ . ½

(iii) Cruciform corolla is characteristic feature of family \_\_\_\_\_ . ½

(iv) The arrangement of flowers on the peduncle is called as \_\_\_\_\_ . ½

(B) Choose the correct alternatives [MCQs] :

(v) Cyathium inflorescence is found in \_\_\_\_\_ : ½

(a) Ocimum

(b) Euphobia

(c) Datura

(d) Tridax

(vi) The botanical name of Shatavari is : ½

(a) *Aloe Vera*

(b) *Ocimum sanctum*

(c) *Asparagus racemosus*

(d) *Rauwolfia serpentina*

(vii) In Radish taproot is modified into : ½

(a) Conical root

(b) Napiform root

(c) Prop root

(d) Fusiform root

(viii) Morphological type of fruit in cotton is : ½

(a) Capsule

(b) Drupe

(c) Pepo

(d) Berry

(C) Answer in **one** sentence :

(ix) Define Phyllotaxy. 1

(x) What is flower ? 1

(xi) What are fossils ? 1

(xii) What is the function of Pneumatophore ? 1



- |                                         |   |
|-----------------------------------------|---|
| (a) Impression.                         | 4 |
| (b) Geological time scale (only table). | 4 |
| (c) Anatomy of stem in Bennettites.     | 4 |

OR

- |                                                                  |    |
|------------------------------------------------------------------|----|
| (d) Compression.                                                 | 4  |
| (e) T.S. of stem of <i>Lyginopteris oldhamia</i> .               | 4  |
| (f) Process of fossilization.                                    | 4  |
| 3. Describe the male cone and male gametophyte in <i>Pinus</i> . | 12 |

OR

- |                                                 |   |
|-------------------------------------------------|---|
| (g) Describe L.S. of ovule in <i>Gnetum</i> .   | 6 |
| (h) Affinities of Gymnosperms with Angiosperms. | 6 |
| 4. Comment on :                                 |   |
| (i) Napiform root.                              | 4 |
| (j) Corm.                                       | 4 |
| (k) Bilinnate compound leaf.                    | 4 |

OR

- |                              |   |
|------------------------------|---|
| (l) Phylloclade.             | 4 |
| (m) Parallel venation.       | 4 |
| (n) Annuals and Perennials.  | 4 |
| 5. Comment on :              |   |
| (o) Capitulum inflorescence. | 4 |
| (p) Entomophily.             | 4 |
| (q) Marginal Placentation.   | 4 |

OR

- |                                   |   |
|-----------------------------------|---|
| (r) Papilionaceous corolla.       | 4 |
| (s) Verticillaster inflorescence. | 4 |
| (t) Adhesion of Stamens.          | 4 |



6. What is Simple fruit ? Describe morphological types of simple fleshy fruits (any four). 12

OR

- (u) Describe varieties and economic importance of Potato. 6  
(v) Describe varieties and economic importance of Cotton. 6
7. Comment on :
- (w) Economic importance of Black Pepper. 4  
(x) Sources of Bamboos. 4  
(y) Medicinal uses of *Azadirachta indica*. 4

OR

- (z) Economic importance of Cardamom. 4  
(a) Medicinal uses of *Withania somnifera*. 4  
(b) Economic importance of Eucalyptus. 4

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