



NTK/KW/15 - 5800

Second Semester B. Sc. Examination

BOTANY

Paper - II

(Palaeobotany and Morphology of Angiosperms)

Time : Three Hours]

[Max. Marks : 50

- N. B. : (1) All questions are compulsory and carry equal marks.
(2) Draw well labelled diagrams wherever necessary.

1. Write on :—

- | | |
|----------------------------|---|
| (a) Geological time scale. | 5 |
| (b) Petrification. | 5 |

OR

Write short notes on :—

- | | |
|----------------------------|-----|
| (c) Replacement theory. | 2.5 |
| (d) Impression as fossil. | 2.5 |
| (e) Compression as fossil. | 2.5 |
| (f) <u>Glossopteris</u> . | 2.5 |

2. Write on :—

- | | |
|--|---|
| (a) Modification of roots for storage. | 5 |
| (b) Types of Phyllotaxy. | 5 |

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Contd.



OR

Write short notes on :—

- | | |
|---------------------------|-----|
| (c) Respiratory roots. | 2.5 |
| (d) Rhizome. | 2.5 |
| (e) Venation in leaf. | 2.5 |
| (f) Monopodial branching. | 2.5 |

3. Write on :—

- | | |
|--|---|
| (a) Types of aestivation. | 5 |
| (b) Cyathium and hypanthodium inflorescence. | 5 |

OR

Write short notes on :—

- | | |
|----------------------------|-----|
| (c) Gynandrophore. | 2.5 |
| (d) Parts of flower. | 2.5 |
| (e) Verticillaster. | 2.5 |
| (f) Papilioaceous corolla. | 2.5 |

4. Write on :—

- | | |
|----------------------------|---|
| (a) Schizocarpic fruits. | 5 |
| (b) Types of placentation. | 5 |

OR

Write short notes on :—

- | | |
|---------------------------|-----|
| (c) Floral diagram. | 2.5 |
| (d) Polyadelphous stamer. | 2.5 |
| (e) Drupe. | 2.5 |
| (f) Sorosis. | 2.5 |

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5. Write in **two to three** lines only. (Any **Ten**) (Diagrams are not necessary)

- (a) Fossil.
- (b) Gondwana land.
- (c) Coal balls.
- (d) Leaf tendril.
- (e) Root tuber
- (f) Phyllode
- (g) Perigyny.
- (h) Spadix.
- (i) Pappus.
- (j) Gynostegium.
- (k) Hesperidium.
- (l) Siliqua.

$$1 \times 10 = 10$$