

TKN/KS/16-5800

Second Semester B. Sc. Examination

BOTANY

Paper - II

(Paleobotany and Morphology of Angiosperms)

Time : Three Hours]

[Max. Marks : 50

- N. B. : (1) All questions are compulsory and carry equal marks.
(2) Illustrate your answers with suitable example and diagrams wherever necessary.

1. Write on :—

- (a) Replacement and infiltration theory.
- (b) Geological time scale.

5X2

OR

Write short notes on :—

- (c) Compression.
- (d) Petrification.
- (e) **Glossopteris** leaf.
- (f) Impression.

2.5X4

2. Write on :—

- (a) Modifications of roots for storage.
- (b) Modifications of stem.

5X2

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Contd.

OR

Write short notes on :—

- (c) Morphology of typical leaf.
- (d) Reticulate venation.
- (e) Leaf tendrils.
- (f) Monopodial branching.

2.5x4

3. Write on :—

- (a) Cyathium and hypanthodium inflorescence.
- (b) Morphology of typical flower.

5x2

OR

Write short notes on :—

- (c) Androphore and gynophore.
- (d) vexillary aestivation.
- (e) Hypogyny and perigyny.
- (f) Capitulum inflorescence.

2.5x4

4. Write on :—

- (a) Types of placentation
- (b) Cohesion in stamens.

5x2

OR

Write short notes on :—

- (c) Parts of gynoecium
- (d) Cremocarp.

(e) Hesperidium

(f) Dehiscence of anthers.

2.5x4

5. Write in **two** or **three** lines on each (any **ten**) Diagrams are not necessary :—

(a) Fossil

(b) Era

(c) Gondwana land

(d) Pnumatophore

(e) Phyllotaxy

(f) Sympodial branching

(g) Racemose

(h) Gynandrophore

(i) Epigyny

(j) Epipetalous

(k) Regona

(l) Versatile fixation.

1x10