



K16P 0394

Reg. No. :

Name :

**Second Semester M.Sc. Degree (Regular/Supplementary/Improvement)
Examination, March 2016**

BOTANY

(2014 Admn. Onwards)

BOT 2C 06 : Plant Anatomy and Microtechnique

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following :

(2×8=16)

1) Write an account of arrangement of different tissues in a plant body.

OR

2) Describe anomalous secondary growth in storage roots.

3) Give an account of principle, purpose and preparation of basic stains.

OR

4) Write on the types and importance of fixatives.

II. Answer **any two** of the following :

(2×6=12)

5) a) Define cambium.

1

b) Inter conversion of fusiform and ray initials.

2

c) Cambium in wound healing.

3

6) a) Define endosperm.

1

b) Anatomy of the cotyledon.

2

c) Polarity control of cell differentiation.

3

7) a) Principle of diaphragm.

1

b) Staining for TEM.

2

c) Micrometry.

3

P.T.O.



III. Answer **any six** of the following :

(6×3=18)

- 8) Cytohistological zonation.
- 9) Seasonal activity in cambium.
- 10) Structure of tension wood.
- 11) Floral nectaries.
- 12) Camera Lucida.
- 13) Dehydration.
- 14) Vital staining.
- 15) Maceration.

IV. Answer **any seven** of the following :

(7×2=14)

- 16) Plastochrone index.
- 17) Wound periderm.
- 18) P-protein.
- 19) Kino.
- 20) Cork cells.
- 21) AFTM.
- 22) Carnoy's fluid.
- 23) Toluene blue.
- 24) Whole mount.
- 25) Crystal violet.