



M 27391

Reg. No. : .....  
(8)=8x8)  
Name : .....



**II Semester M.A./M.Sc./M.Com. Degree (Reg./Sup./Imp.)  
Examination, March 2015  
(2014 Admn. Onwards)**

**BOTANY**

**BOT2C06 : Plant Anatomy and Microtechnique**

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following : (2x8=16)

1) Write an account on stem apex concept and theories associated with it.

OR

2) Explain the differentiation of sieve element.

3) Discuss the importance of dehydration in anatomical studies. Add a note on dehydrating agents.

OR

4) Explain the technique of sectioning materials embedded in paraffin wax.

II. Answer **any two** of the following : (2x6=12)

5) a) What is Quiscent centre. 1

b) Give two examples of modified leaf. 2

c) Explain the origin of lateral roots. 3

6) a) Define stomata. 1

b) Write on stomatal distribution. 2

c) Describe stomatal ontogeny. 3

7) a) Define stain. 1

b) Classify stains. 2

c) Explain the method of double staining. 3

P.T.O.



(6x3=18)

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

- 8) Node-Nodal patterns.
- 9) Vascular cambium formation in monocot.
- 10) Compression wood.
- 11) Bulliform cells.
- 12) TEM.
- 13) Zircle-Elrik formula.
- 14) Whole mounts.
- 15) Embedding.

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

(7x2=14)

- 16) Pneumatophores.
- 17) Infected vascular cambia.
- 18) Latex.
- 19) Silica cells.
- 20) Salt glands.
- 21) Microtomes.
- 22) FAA.
- 23) Triple staining.
- 24) Staining of protein.
- 25) Smears.