M 25118

Reg. No. : .....

Name : .....

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

BOTANY

Paper – BV : Angiosperm Anatomy, Microtechnique and Evolution

Time : 3 Hours Max. Marks : 70

Instruction : *Draw diagrams* ***wherever*** *necessary.*

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

1) Write an account on the chemical constituents of secondary wall.
2) Describe the development of cambium in stem.
3) Give an account of secretary cells and tissues.
4) Explain differentiation of sieve elements. **(2×10=20)**

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

5) Write an account on the types of microscopes and their parts.
6) Discuss on the origin and evolution of species. **(1×10=10)**

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

7) Origin of leaf and branch trace.
8) Kranz-anatomy.
9) Periderm formation in monocots.
10) Polarity control of cell differentiation.
11) Classification of stains. **(3×5=15)**

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

12) Cytohistological zonation.
13) Root-shoot interface.
14) Anatomical growth in secondary roots.
15) Bulliform cells.
16) Mescotyl differentiation.

P.T.O.

17) Microtome.

18) Nodal patterns.

19) Anatomy of seed coat. (5×3=15)

V. Answer **any five** of the following :

20) Sympodium

21) Cataphylls

22) Sap wood

23) Digestive glands

24) Chromic acid

25) Resolving power

26) Adhesive

27) Plastochrone index. (5×2=10)
