

B.N.BANDODKAR COLLEGE OF SCIENCE, THANE
T.Y.B.Sc. Preliminary Examination Feb- 2012
BOTANY – IV

Duration: 3 Hours

Total Marks: 100

N.B.

- All questions are compulsory.
- All questions carry equal marks.
- Draw neat and labeled diagrams wherever necessary.

Q. 1. Answer any **four** of the following :- 20 M

- a) Use of Anti-oxidants.
- b) Future prospects of herbal cosmetics industry in India.
- c) Organization of biological data.
- d) Pickling in Vinegar.
- e) Marketing and Economics of Mushroom industry.
- f) Totipotency.

Q.2. Answer any **two** of the following :- 20 M

- a) With reference to mushroom industry explain picking and packaging.
- b) Discuss in detail plant group as a source of alkaloids and tannins.
- c) Discuss in detail the extraction process for any one essential oil adding a note on its cultivation.

Q.3. Answer any **two** of the following :- 20 M

- a) Discuss the requirements of an organized laboratory.
- b) Discuss the post harvest technique of freezing explaining any one method.
- c) With reference to organ culture, discuss anther and pollen culture.

Q.4. Answer any **two** of the following :- 20 M

- a) With respect to soil and propagation methods explain cultivation practices of *Curcuma longa*.
- b) What are herbal cosmetics? Explain natural and artificial drying of herbal material.
- c) Discuss current status of herbal cosmetics industry in India.

P.T.O.

Q.5. Answer any **two** of the following :-

20 M

- a) Discuss in detail construction of c-DNA library.
- b) With reference to hybridization, discuss Northern Hybridization.
- c) Explain: Protein Structure Analysis. Add a note on its application.
