

**M.Sc. 4th Semester Examination, 2011**

**BOTANY**

*(Economic and Applied Botany)*

**PAPER—XIX**

*Full Marks : 40*

*Time : 2 hours*

**Answer all questions**

*The figures in the right-hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

*Illustrate the answers wherever necessary*

1. (a) What is essential oil ? Give two names of the plants yielding essential oil mentioning the parts of the plants used. Name *four* trees which yield wood oil.

1 + 1 + 2

( Turn Over )

- (b) Differentiate fibre and floss. Give two examples of both. 2 + 2

*Or*

- (a) Define drug. Mention the basic differences between drug and medicine. 2 + 2

- (b) What are the various uses of grasses ? Answer giving examples. 2 + 2

2. Give an account of endangered and threatened plants growing in Eastern India. Mention the activities of IUCN and NBPGR for protection of such plants.  $3 + 2\frac{1}{2} + 2\frac{1}{2}$

*Or*

Name *two* economically important invasive species. State how these invasive taxa cause concern to us and suggest some remedial measures. 2 + 6

3. Name the different chemical constituents of honey. Discuss on the food values of honey. 4 + 4

*Or*

Name the important bee-forage plants of West Bengal. Briefly discuss the significance of bee pasturage in enhancement of agri-horticultural yield. 5 + 3

4. Give a brief account of sacred trees of India mentioning their uses. 8

*Or*

Write an essay on the socio-economic importance of sacred groves. 8

5. Define germ plasm. Mention different means of germ plasm conservation and its significance in biodiversity conservation. 2 + (4 + 2)

*Or*

Define clone. What is meant by chimera ? Write the scope of clonal selection. How is it done ? 2 + 2 + 2 + 2

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