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9/5/19
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S. No. of Question Paper : 2361

Unique Paper Code : 32163404

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Name of the Paper : Medicinal Botany

Name of the Course : B.Sc. (Hons.) Botany/B.Sc. Prog. : SEC

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt five questions in all including

Question No. 1 which is compulsory.

Write botanical names wherever applicable.

1. (a) Write suitable answers for the following : $5 \times 1 = 5$

(i) A plant used as an expectorant and bronchodilator in cough syrups.

(ii) A plant source of reserpine.

(iii) A plant used as a tonic for female reproductive issues.

(iv) A critically endangered medicinal plant.

(v) Expand the abbreviation-TBGRI.

P.T.O.

(b) Match the following :

3×1=5

- | | |
|----------------------------------|--------------------|
| (i) <i>Terminalia chebula</i> | (a) Asphodelaceae |
| (ii) <i>Phyllanthus emblica</i> | (b) Menispermaceae |
| (iii) <i>Piper longum</i> | (c) Combretaceae |
| (iv) <i>Tinospora cordifolia</i> | (d) Phyllanthaceae |
| (v) <i>Aloe vera</i> | (e) Piperaceae |

(c) Define any five of the following terms :

5×1=5

- (i) Bioprospecting
- (ii) Ethnotaxonomy
- (iii) Greenhouse
- (iv) Pharmacopoeia
- (v) Traditional medicine
- (vi) Adaptogen.

2. Write short notes on the following (any three) : 3×5=15

- (i) Ethnobotany as an interdisciplinary science
- (ii) IUCN Red List Categories
- (iii) *Curcuma longa*
- (iv) Polyherbal formulations
- (v) A plant used as a nootropic drug.

3. (a) Explain the concepts of health and disease in the Unani system of medicine. How does the system differ from the 'Tridoshas' concept of Ayurveda ? 7
- (b) What are the threats to biodiversity ? Discuss the various strategies used for conservation of endangered and endemic medicinal plants of India. 8
4. (a) Mention two medicinal plants and explain their importance in the treatment of each of the following diseases : 3×3=9
 - (i) Cardiac ailments
 - (ii) Skin diseases
 - (iii) Jaundice.
- (b) What are the objectives of a nursery ? What is the difference between a temporary and permanent nursery ? List the important components of a nursery. 6
5. Write the botanical name, family, part used, major active constituents and medicinal uses for the following (any three) : 3×5=15
 - (a) Cinnamon
 - (b) Periwinkle
 - (c) Holy basil
 - (d) Indian ginseng.

6. (a) Write a note on the 'Jeevani' drug based on the traditional knowledge of Kani tribe of Kerala. 5
- (b) What is the role of ethnobotanical surveys and documentation in relation to medicinal plants ? 5
- (c) Discuss the various asexual methods used for the propagation of medicinal plants. 5