

Total No. of Pages: 2

Register Number:

6402

Name of the Candidate:

M.Sc. DEGREE EXAMINATION December 2014

(BOTANY)

(SECOND YEAR)

**210: TAXONOMY OF ANGIOSPERMS, ECONOMIC BOTANY,
ENVIRONMENTAL BIOLOGY, PHYTOGEOGRAPHY AND ELEMENTS
OF FORESTRY**

Time: Three hours

Maximum: 100 marks

SECTION-A

Answer ALL questions

(8 × 3 = 24)

Each answer not to exceed 50 words

Comment the following:

1. Numerical taxonomy
2. Porous dehiscence
3. Nuts
4. Condiments
5. Food web
6. Soil pollution
7. Social Forestry
8. Extinction

SECTION-B

Answer ALL questions

(6 × 6 = 36)

Each answer not to exceed 300 words

9. a) Narrate the applications of biosystematics.
(OR)
b) Define effective and valid publication and rejection of names.
10. a) Comment on gynandrophore, gynostegium and syngenesious with examples.
(OR)
b) Write on pappus, bilipped corolla and spikelet in Poaceae.

11. a) Comment on the fruits of Rutaceae, Asclepiadaceae and Acanthaceae with diagrams.
(OR)
b) Draw the inflorescences of Apiaceae, Lamiaceae and Asteraceae and comment on them.
12. a) Give an account on cereals and millets.
(OR)
b) Discuss about timbers and drug yielding plants with examples.
13. a) Write on ecological pyramids.
(OR)
b) Discuss the methods of studying plant communities.
14. a) Give an account on the forest types of India.
(OR)
b) define endemism and ethnobotany with examples.

SECTION-C**Answer ALL questions****(2 × 20 = 40)****Each answer not to exceed 1200 words**

15. a) Explain Bentham and Hooker system of classification and discuss its merits and demerits.
(OR)
b) Write an account on Orchidaceae with labelled diagrams and mention its advanced characters in evolution.
16. a) Discuss the causes and consequences of acid rains, green house effect and depletion of ozone layer.
(OR)
b) Cite the important wildlife elements of South India and causes for their destruction and need for protection.

&&&&&&