



M.Sc. (Final)

Term End Examination, 2017-18

BOTANY

Paper - II

Ecology Resource Utilization and Conservation

Time : Three Hours] [*Maximum Marks* : 100

[Minimum Pass Marks : 36

Note : Answer any **four** questions. All questions carry equal marks.

1. What do you know about analytical characters of plant community? Describe in detail.
2. Elaborate mechanism of succession. What are the changes in ecosystem properties during succession?
3. What do you understand by Primary production? Describe the methods of measuring primary production.

(2)

4. What is energy dynamics ? Describe various energy flow pathways explaining the flow of energy in an ecosystem.
5. What are biogeochemical cycles ? Describe global biogeochemical cycle of carbon.
6. Describe the causes and consequences of air pollution.
7. What do you know about 'Conservation' ? Differentiate between 'in situ' and 'ex situ' conservation methods.
8. Give two plant names of each category given below with their botanical names, family and the parts of use :
 - (a) Food crops
 - (b) Fodder crops
 - (c) Medicinal plants
 - (d) Vegetable oil yielding plants
 - (e) Timber yielding plants
 - (f) Gums
 - (g) Tannins
 - (h) Dyes

OR

(3)

Write notes on the following :

- (a) Biosphere Reserves
 - (b) Coral Reefs
 - (c) Cryo Bank
 - (d) Botanical Gardens
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