

NALANDA OPEN UNIVERSITY
M.Sc. Botany, Part-I
PAPER-I
(Biodiversity of Plant and Diversity of Algae)
Annual Examination, 2016

Time : 3 Hours.

Full Marks : 80

Answer Five Questions in all, selecting at least Two Questions from each group.
All questions carry equal marks.

GROUP 'A'

1. Mention few major factors for the decline of Biodiversity.
2. What are the important attributes made at global level to conserve Biodiversity ?
3. Describe ecosystems. Give in detail various component of an ecosystem citing suitable example.
4. Explain the following :-
(a) Status of protection of Biodiversity in India.
(b) Major Causes of Extinction of various Animal species.
5. Write short notes on any **Two** of the following:
(a) Nitrogen Cycle (b) Carbon Cycle
(c) Pyramid of Biomass (d) Calculation of Productivity in an Ecosystem
(e) Corbet National Park, Uttarakhand

GROUP 'B'

6. Giving suitable diagram, describe ultra structure of a Cyanophycan cell. In what respect it differs from a green cell.
7. How different groups of Algae classified on the basis of Pigments they contain. What are their types ?
8. What is **Isomorphic Alternation** of generation ? Explain in context to life cycle of *Ectocarpus*.
9. Describe mode of sexual reproduction in any member of *Chlorophyceae* studied by you. Also give suitable diagram to justify your answer.
10. Write short notes on any **Two** of the following.
(a) Role of Nostoc as Nitrogen fixer (b) Source of Agar-Agar
(c) Aplanospores (d) Macrandrous species of *Oedogonium*
(e) Algae as food.

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Examination Programme, 2016
M.Sc. Botany, Part-I

Date	Papers	Time	Examination Centre
12.05.2016	Paper-I	8.00 AM to 11.00 AM	Nalanda Open University, Patna
14.05.2016	Paper-II	8.00 AM to 11.00 AM	Nalanda Open University, Patna
16.05.2016	Paper-III	8.00 AM to 11.00 AM	Nalanda Open University, Patna
18.05.2016	Paper-IV	8.00 AM to 11.00 AM	Nalanda Open University, Patna
20.05.2016	Paper-V	8.00 AM to 11.00 AM	Nalanda Open University, Patna
24.05.2016	Paper-VI	8.00 AM to 11.00 AM	Nalanda Open University, Patna
26.05.2016	Paper-VII	8.00 AM to 11.00 AM	Nalanda Open University, Patna
28.05.2016	Paper-VIII	8.00 AM to 11.00 AM	Nalanda Open University, Patna