

NS4S-4161-B-24
B.Sc. IV Semester (NEP) Degree Examination
BOTANY
Ecology and Conservation Biology
Paper : DSE-4.1

Time : 2 Hours

Maximum Marks : 60

Instructions to Candidates:

1. *Answer All the Sections*
2. *Diagram will enhance the value of answer.*

SECTION-A

Answer any Five of the following questions

(5×2=10)

1. a) What is Phenotypic plasticity.
- ~~b)~~ What are heliophytes?
- ~~c)~~ What is Succession?
- ~~d)~~ What is Pioneer Species?
- ~~e)~~ Expand NTFP.
- ~~f)~~ What is acid rain?
- ~~g)~~ Write two examples of ex-situ conservation.

SECTION-B

Answer any Four of the following questions

(4×5=20)

2. Write the scope and importance of ecology.
- ~~3.~~ Explain briefly with cyclic representation of Carbon cycle?
4. According to Vavilovs name the centres of origin of crop Plants.
- ~~5.~~ What is biodiversity? explain levels of biodiversity.
- ~~6.~~ Explain morphology and anatomical adaptation of hydrophytes.
- ~~7.~~ Explain in brief biodiversity hot spots of India.

SECTION-C

Answer any Three of the following questions

(3×10=30)

8. Explain Morphology and anatomical adaptations of xerophyte.
 9. What is ecological pyramids? Explain pyramids of energy and biomass.
 10. Write short note on
 - a) Remote sensing
 - b) Stages of hydrosere
 11. Explain briefly, vegetation types of Karnataka.
 12. Write short note on
 - a) Acid rain
 - b) Control measures of soil pollution.
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