Fourth Semester B.Sc., Degree Examinations

May / June 2026

(CBCS NEP Scheme)

BOTANY

Paper : IV : Sub. Code : NSD0260 : Ecology and Conservation Biology

Time: 2 hrs.] *[Max.Marks:60*

Instructions to Students :

1. *The students should legibly write Section number along with question numbers within the margin ONLY.*
2. *The answers without Section number and question numbers will not be valued.*
3. *Draw neat and labeled diagram wherever necessary.*
4. *Section – I Multiple Choice Questions should be answered in the First Page of Main answer book and same questions shall not be answered repeatedly.*
5. *Any identifications like marking, ticking, dots etc., in the options of MCQ Questions (SECTION - I) on the question paper is strictly prohibited. Do not write anything (Except Reg. No.) on the question paper.*

SECTION- I

I. *Select the most appropriate answer from options provided :* *10X 1= 10 Marks*

I-1) The role played by a biotic factor in a ecosystem is called

a) Ecotone b) Ecological nitche

c) Ecotype d) None

I-2) The size of the soil particles constitutes;

a) Soil pH c) Soil Salinity

b) Soil organic content d) Soil texture

I-3) Plants which grows in saline habital are called;

a) Hydrophyte b) Epiphytes

c) Halophyte d) Parasites

I-4) The inverted eltonian pyramid is seen in the _____ ecosystem.

a) Aquatic ecosystem b) Terrestrial ecosystem

c) Detritus ecosystem d) Tree ecosystem

I-5) Phosphorus biogeochemical cycle is a _____

a) Gaseous cycle b) Complete cycle

c) Sedimentary cycle d) None

Contd...2

I-6) Mortality is _____

a) Birth rate b) Death rate

c) Both a) & b) d) None

I-7) Karnataka State comes under the climatic condition of;

a) Tropical b) Subtropical

c) Temperate d) Arctic

I-8) Minimata disease of fishes is due to :

a) Iron pollutant b) Zinc pollutant

c) Lead pollutant d) All these

I-9) NT FP means

a) New Tropical Forest product

b) Northern Temperate Forest product

c) Non timber yielding Forest product

d) None of these

I-10) Example for *Exsitu* conservation

a) Zoo b) National parks

c) Sanctuaries d) Biosphere reserves

SECTION- II

II. ***Answer/Write notes on any FIVE of the following.*** ***5X 3= 15 Marks***

II-1) Xerophytes

II-2) Edaphic factors

II-3) Abiatic factors

II-4) Food chain

II-5) National mission on clean ganga

II-6) Effects of water pollution

II-7) Endemism and endemic species

II-8) Botanical gardens

Contd...3

SECTION- III

III. *Medium Answer questions.*

Answer any THREE questions from the following. *3X 5= 15 Marks*

III-1) Give an account on climatic factors

III-2) Explain the carbon cycle

III-3) Write a note on population ecology

III-4) Explain continental drift

III-5) Explain the *insitu* method of wild life conservation.

SECTION- IV

IV. *Answer the following:* *2X 10= 20 Marks*

IV-1) Explain the pond ecosystem with neat diagram.

OR

Explain the phytogeographical regions of India.

IV-2) Explain the causes, effects, air quality standards of air pollution and also add a note on acid rain.

OR

Give an account on :

a) Vegetation of Karnataka

b) Biodiversity

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