

Roll No.....

Total No. of Units : 04

Total No. of Printed Pages : 03

Code No. : 04/204

Fourth Semester Examination, May 2019

M.Sc. BOTANY

Paper - II

ECOLOGY - II

(POLLUTION AND BIODIVERSITY CONSERVATION)

Time : 3 Hrs.

Max. Marks : 80

- Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences.
Part C (Short answer type) of each question should be answered in 200-250 words.
- Part D (Long answer type) of each question should be answered within the word limit 400-450.

Unit - I

Q.1 A. What are Savanna biome? What are its two types? (2)

Q.1 B. What do you mean by leterite? Write its chemical composition. (2)

Q.1 C. Describe forest types of Eastern and Western Himalayas. (4)

OR

Write an essay on grassland vegetation.

Q.1 D. What do you understand by climate? Explain climatic zones of India in detail. (12)

OR

What is Biome? Write an essay on major biomes.

P.T.O.

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Unit - II

Q.2 A. What do you mean by London Smog? (2)

Q.2 B. What is B.O.D. ? What should be the BOD of fresh water and contaminated water? (2)

Q.2 C. Write a note on green ouse gases and its effects. (4)

OR

Explain bioaccumalation and biomagnification with suitable example.

Q.2 D. Write an essay on water pollution and its effects on plant and ecosystem. (12)

OR

Write a detail essay on ozone layer and ozone hole.

Unit - III

Q.3 A. What are hot spots? (2)

Q.3 B. What do you understand by primary and secondary centres of origin of crop plants? (2)

Q.3 C. Explain various types of biodiversity. (4)

OR

What is IUCN Red Data List? Explain.

Q.3 D. What is plant introduction? Explain its types, procedure, purpose, merits and demerits. (12)

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OR

Explain role of biodiversity in ecosystem function and stability.

Unit - IV

Q.4 A. What is germplasm regeneration or rejuvenation? (2)

Q.4 B. What are core area and buffer zone? (2)

Q.4 C. Write an essay on Ramsar sites. (4)

OR

Explain principles of conservation.

Q.4 D. Write an essay on in In-situ conservation. (12)

OR

Write a detailed note on mandate organization and activities of ICAR.

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