

19002846



Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, OCTOBER 2019

First Semester

Faculty of Science

Branch VI—Botany

ENVIRONMENTAL BIOLOGY

(2012 to 2018 Admissions)

Time : Three Hours

Maximum Weight : 30

I. Answer any *six* of the following in not less than 50 words each. Weight 1 each :

- 1 What is meant by Ecotype ?
- 2 Explain ecosystem diversity.
- 3 Explain K-selection population.
- 4 What is subsistence density ?
- 5 What are retrogressive changes ?
- 6 What is meant by ecological balance ?
- 7 What are RET species ?
- 8 What are bioscrabbers ?

(6 × 1 = 6)

II. Answer any *seven* of the following in not less than 100 words each. Weight 2 each :

- 9 Describe Sorensen's index of similarity.
- 10 Define antogenic and allogenic changes.
- 11 Mention the principles involved in solid waste management.
- 12 Give an account of various aquatic ecosystems with regard to their productivity.
- 13 Write a brief account on sustainable development.
- 14 Give an account of conservation in biosphere reserves.

Turn over





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- 15 Write notes on watershed management.
- 16 Write notes on air pollution and human health hazards.
- 17 Explain bioremediation.
- 18 Explain the use of bioreactors in waste management.

(7 × 2 = 14)

III. Answer any *two* of the following in not less than 250 words each. Weight 5 each :

- 19 Suggest methods for the effective management of radioactive and thermal pollution.
- 20 Give an account of climate change and its consequences.
- 21 Describe the positive and negative impacts of ecotourism.

(2 × 5 = 10)

