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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, MAY 2020

Fourth Semester

Faculty of Science

Branch VIII—Zoology

ZY4C ET01—Elective C—Environmental Science—CONCEPTS AND APPROACHES

(2012 Admission onwards)

Time : Three Hours Maximum Weight : 30

Section A (Short Answer Type Questions)

Answer any **ten** *out of twelve.*
Weight 1 *each.*

I. Comment on the following :—

1 *El Nino* and *La Nina*.

2 Koeppen's classification.

3 Retreat of monsoon.

4 CITES and TRAFFIC.

5 PBR.

6 Role of microbes in soil.

7 Molecular evolution.

8 Riparian Ecosystem.

9 Phenotypic plasticity and its importance.

10 DNA bank.

11 *In-vitro* conservation.

12 Plate tectonics.

(10 × 1 = 10)

Turn over

Section B (Short Essay Type Questions)

Answer any **five** *out of eight.*
Weight 2 each.

II. Write short essays on :

13 Biocontrol programmmes.

14 Climate of India.

15 Weathering and soil formation.

16 Ecological assessment of landscape for vegetation and habitats.

17 Strategies for biodiversity conservation.

18 Influence of pH, turbidity and light on aquatic life.

19 Biodiversity Act 2002 and laws.

20 Impacts of exotics on biodiversity.

$(5 \times 2 = 10)$

Section C (Long Essay Type Questions)

Answer any **two** *out of three.*
Weight 5 each.

III. Write long essays on the following :—

21 Explain the effect of climate change on ecosystem and human welfare.

22 Biodiversity hotspots and their characteristics.

23 Tools and techniques for biodiversity estimation.

$(2 \times 5 = 10)$