**D 70368** (Pages : 2) Name.....

Reg. No.....

# FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(CUCBCSS—UG)

Zoology

## ZOL 5B 06—ENVIRONMENTAL BIOLOGY, WILDLIFE CONSERVATION AND TOXICOLOGY

Time : Three Hours Maximum : 80 Marks

A. Answer *all* questions. Each carries 1 mark :

1 What is CITES ?

2 What is diversity index ?

3 What is an endemic species ?

4 What is alpha diversity ?

5 What is botulism ?

6 What is a xenobiotic ?

7 State Combined Concept ofLimiting Factors.

8 What is sedimentary cycle ? Mention an example.

9 What is ecotone ?

10 What is synecology ?

(10 × 1 = 10 marks)

B. Answer any *ten* questions in two *or* three sentences each. Each carries 2 marks :

11 What is Pharmacy Act ?

12 Write briefly on the public health hazards of automobile emission.

13 What is acute toxicity ? How is it commonly expressed ?

14 Write a note on Project Tiger.

15 Comment on hot spots of biodiversity.

16 What are the major strategies of UNEP ?

17 What do you know about Red Data Book ?

18 Explain the principle and applications of remote sensing in ecological studies.

19 Write on chemosynthetic energy production.

Turn over

20 Explain the concept of sustainable development.

21 Explain species stratification.

22 Write on the ecological impacts of tourism.

(10 × 2 = 20 marks)

C. Answer any *five* questions in not more than *a paragraph* each. Each carries 6 marks.

23 Explain ecological energetics with reference to the laws of thermodynamics.

24 What is a gaseous cycle? Explain carbon cycle.

25 What is a limiting factor? Explain the basic concepts of limiting factors.

26 What is ecological succession? Explain the patterns of succession.

27 Comment on human interferences on different habitats and their consequences.

28 Explain various legal measures implemented in India for conservation of biodiversity.

29 Explain different symbiotic associations.

30 Elaborate on the various threats to biodiversity.

(5 × 6 = 30 marks)

D. Write essays on any *two* of the following. Each carries 10 marks :

31 Write on the various methods of sampling of animal populations.

32 Explain different kinds of negative population interactions.

33 Explain the various properties of population.

34 What is a Protected Area? Write on various Protected Areas in Kerala you have studied.

(2 × 10 = 20 marks)