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(Pages : 2)

Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS—UG)

Zoology

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

Time : Three Hours

Maximum : 80 Marks

(A) Answer *all* questions. Each question carries 1 mark :

1 What is LD50 ?

2 Write the expansion of CITES.

3 What is an endangered species ? Give an example.

4 What is alpha diversity ?

5 What is Malaise trap ?

6 Define ecological niche.

7 What is chemosynthesis ?

8 What is a sedimentary cycle ?

9 State Leibigs' Law of Minimum.

10 What is biotic potential ?

(10 × 1 = 10 marks)

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

11 Write briefly on behavioural toxicity.

12 Write on Kyoto Agreement.

13 What is Shannon diversity index ?

14 What do you know about Gir Lion Project ?

15 Comment on Seed Bill, 2005.

16 Write briefly on remote sensing.

17 What are the ecological impacts of sand mining ?

18 Write briefly on population dispersal.

19 Explain the concept of sustainable development.

20 Explain vertical stratification of species in a community.

21 Distinguish between autecology and synecology.

22 Comment on herbivory.

(10 × 2 = 20 marks)

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

23 Explain population growth curves.

24 Explain 'Shelfords' Law of Tolerance.

25 Write a brief account on different sampling methods of animal populations.

26 Explain carbon cycle.

27 Elaborate on the various aspects of ecological succession.

28 Write on various threats to biodiversity.

29 Explain the concept of hot spots of biodiversity. Write on hot spots of Indian origin.

30 Explain different methods of conservation of biodiversity.

(5 × 6 = 30 marks)

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

31 Explain various kinds of population interactions.

32 Elaborate on habitat destructions and their consequences .

33 Explain various aspects of ecosystem energetics.

34 What is a Protected Area ? Write on different types of Protected Areas.

(2 × 10 = 20 marks)