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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.

Turn over

- 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)