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(Pages : 2)

Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(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 autecology ?
- 2 What is Xerarch ?
- 3 What is a sedimentary cycle ?
- 4 What is edge effect ?
- 5 What is an invasive species ?
- 6 What is IUCN ?
- 7 What is CITES ?
- 8 What is alpha diversity ?
- 9 What is LC50 ?
- 10 What is chronic toxicity ?

(10 × 1 = 10 marks)

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

- 11 What is Shannon diversity index ?
- 12 Explain the concept of biodiversity hotspots. Mention the two hotspots in the Indian region.
- 13 What is Wildlife Protection Act ?
- 14 Distinguish between Wildlife sanctuary and National park.
- 15 Explain Botulism.
- 16 What do you know about food additives ?
- 17 Comment on Drugs and Cosmetics Act.
- 18 Briefly write on the ecological impacts of tourism.
- 19 Explain Competition Exclusion Principle.
- 20 State the Laws of Thermodynamics.

Turn over

- 21 Comment on age pyramids.
- 22 Distinguish between Home range and Territory.
- (10 × 2 = 20 marks)
- C. Answer any *five* questions in not more than *a paragraph* each. Each carries 6 marks :
- 23 What is ecological succession ? Explain the patterns and processes of succession.
- 24 Write an account on positive interspecific interactions.
- 25 Explain briefly various conservation projects implemented in India.
- 26 Elaborate on the various threats to biodiversity.
- 27 Explain the various concepts of limiting factors.
- 28 Explain nitrogen cycle.
- 29 Write briefly on various sampling methods of animal populations.
- 30 Write an account on the various types of negative interspecific interactions.
- (5 × 6 = 30 marks)
- D. Write essays on any *two* of the following. Each carries 10 marks :
- 31 Explain the properties of population.
- 32 Write on human interferences on habitats and their consequences.
- 33 Elaborate on ecosystem energetics.
- 34 What are the various strategies and legal measures undertaken at global and national levels towards conservation of biodiversity ?

(2 × 10 = 20 marks)