

[This question paper contains 2 printed pages.]

1346

Your Roll No.

B.Sc. (Hons.)/II

A

ZOOLOGY – Paper V

(Ecology and Environmental Management)

(Admissions of 2004 and onwards)

Time : 3 Hours

Maximum Marks : 55

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

*Attempt Five questions in all, including
Question No. 1, which is compulsory.*

1. (a) Define :

(i) Amensalism

(ii) Exotic species

(iii) Ecological equivalent

(iv) Circannual Rhythm

(v) Mentality

(5)

(b) Differentiate between the following :

(i) Sanctuary and National Park

(ii) Niche and Habitat

(iii) Sympatric and Allopatric species

(iv) Territory and Home

(v) Synecology and Autecology

(5)

P.T.O.

- (c) Which Biome has maximum stratification and name its various strata. (3)
- (d) List the community characteristics and which biome has the maximum species and why. (3)
- (e) Expand the following :
- (i) LPG (ii) CFC (iii) GNP (3)
2. What is climate change discuss the causes and consequences of climate changes. (9)
3. (a) Illustrate with the help of labelled diagram the universal model of energy flow in an ecosystem. (7)
- (b) The subsidiary principles of Law of tolerance. (2)
4. Define Biogeochemical cycle and describe Nitrogen cycle. (9)
5. Write an essay on Water Pollution. (9)
6. Define wet land, its significance & add a note on its conservation. (9)
7. Short notes any three :
- (i) Hutchinson
- (ii) Concept of Niche
- (iii) Survivorship curves
- (iv) Conservation of wild life
- (v) Acid rain
- (vi) Urbanisation

(3+3+3)
(1200)****