

M.Sc. - ZOOLOGY SEMESTER –IV EXAMINATION, April -2017

Paper-13 (Ecology and Animal Biotechnology) Paper code: 3706

Time: -2:30 Hours

Total Marks:-70

Instructions: (1) All Questions carries equal marks.

(2) Draw labeled diagram where necessary.

Q: 01 What is Biogeochemical Cycle? Explain Water cycle or Hydrological Cycle. 14

OR

Q: 01 Write notes on: (a) Mutualism. 07  
(b) Protoco-operation. 07

Q: 02 Write notes on: (a) Fecundity and Fertility. 07  
(b) Mortality and Natalty. 07

OR

Q: 02 Define term 'niche'. Give an introduction and types of niche. 14

Q: 03 Write note on: (a) Gir National park. 07  
(b) Any one sanctuary of Gujarat. 07

OR

Q:03 What is gene banking? Write the methods for its conservation. 14

Q: 04 Write brief note on Lac operon. 14

OR

Q: 04 What is regeneration? Describe development of main stages of regeneration in animal. 14

Q: 05 Write note on Artificial animal breeding. 14

OR

Q:05 What is transgenic animal? Describe the production of drugs from it. 14