

B.Sc Zoology OEC Syllabus for II Sem 2016

ZOT:OET- Applied Zoology

4 credits, 56 hours
100 marks

Unit -1

10hrs

Introduction to Zoology, branches and its scope. Animal classification, Binomial nomenclature and ICZN. Concept of cell, Differences between plant cell and animal cell. Cell organelles and its functions.

Unit- 2

10hrs

Vermiculture- Introduction and importance of vermiculture, uses of earthworm for biodegradation of organic waste materials; vermicompost, vermiwash

Aquaculture- Freshwater, marine water fish culture in India; pearl culture. Fish by products and its economic importance.

Unit-3

12hrs

Apiculture: Importance, history and developing of bee keeping. Different species of honey bees and distribution. Management of bees, byproducts of apiculture and their uses.

Sericulture: Modern rearing methods of silkworms. Life cycle of silkworm. Silk production , its management and uses.

Unit- 4

12hrs

Dairy: Importance and scope of Dairy. Principles and methods of breeding- inbreeding, outbreeding, cross breeding, artificial insemination. Dairy by products, preservation and uses. Dairy pathology- vaccination programme.

Poultry: History, importance and scope of poultry. Techniques and methods of breeding. Poultry by products and its economic importance.

Unit-5

12hrs

Diseases and vectors: Historical prospective of diseases, Common diseases in human beings, causes, mode of transmission, symptoms, treatment and preventive measures of the following diseases- typhoid, malaria, dysentery, diarrhoea, cholera elephantiasis, dengue, chikungunya, hyperacidity, sexually transmitted diseases- HIV/AIDS, gonorrhoea, syphilis.
Importance of education, awareness and Community participation

REFERENCES:

1. Kotpal- Invertebrate Zoology
2. Gupta P.K Vermicomposting for sustainable agriculture. Agrobios India 2003
3. S Chand- A hand book of economic zoology.
4. Mishra R C Perspectives in Indian Apiculture. Allied scientific publ. Bikaner India 1999.
5. Srivastava, K. P., 1988. A Textbook of Applied Entomology, Publ. Kalyani Publishers, New Delhi.
6. Rao, T. R., 1984. The Anophelines of India. Publ. by Malaria Research Centre, Delhi.

BOS Members