

**APPLIED ZOOLOGY (optional)**

**Sericulture** : Mulberry Silkworm and Life History of Bombyx mori  
07 hrs

Rearing of Silkworm: Grainage management, Emergence of moth and fertilization, egg laying, hatching and moulting of-silkworm, spinning of cocoons, Cocoon processing, stiffling and spinning silk. Filature. Non mulberry silkwarm, types. in brief & Silkworm diseases- Muscardine, Grasserie, Flacherie & Pebrine.

**Apiculture**: Species of Honey Bees, their Social organization, Life History  
05 hrs  
Methods of Bee Keeping, products of Bees, & their Economic importance

**Insect Pest Management** : Natural control and Applied control of pests  
05 hrs

Applied Control \_\_\_ Mechanical, Physical, Cultural, Legal, Chemical control

**Vermiculture**: Eearthworm species used in vermiculture, vermiculture technique, and Importance of vermiculture.  
04 hrs

**Aquaculture** :  
10 hrs

Prawn Fisheries, Species of Prawns, Culture of freshwater and marine Prawns, Preservation and processing of Prawns.

**Pearl Culture** : Pearl producing molluscans, Pearl formation, Pearl producing Sites in India. Quality and composition of Pearl. Pearl Industry: Artificial Insertion of nucleus  
Brief technique of Fish culture, Preservation of fishes and their Byproducts

**Poultry** : Breeds of fowl, Diseases of poultry, Poultry maintenance and By-products, and CoMposition and Nutritive value of Egg. 06 hrs

**Animal Husbandary**: Maintenance, Breeds Diseases, Products and By Products of the following 10 hrs

Sheep and Goats, Cow and Buffalos, Composition and Nutritive value of Milk

**Lac culture**: Classification of Lac insect (Techardia lacca, Life history of Lac Insect. Host plants, Cultivation of Lac. Compostion and properties & Economic importance 3 hrs.

**Practicals – 6.1  
Practicals**

**Total -11**

1. Project on any of the applied branch studied in theory 1
2. Study of mulberry silkworm and Life cycle 1
3. Types of non mulberry silkworms in brief and Silkworm diseases (Pebrine, Muscardine and Grasserie & Flaturie) 1
4. Species and castes of honeybees 1
5. Agricultural pests and domestic pests (total 8 varieties) 1
6. Study of fisheries \_\_ Molluscs (three), Crustaceans (three) And Pisces (six)
7. Study of Varieties of sheep and goat (from chart/photographs) 1
8. Study of varieties of Cow & Buffalos(from chart/photographs) 1
9. Vermiculture \_\_ Study of types of Earthworm species 1
- 10 Study of poultry breeds 1
- 11 Study of Lac insect (Life cycle) 1

Scheme for practicals 6.1 APPLIED ZOOLOGY

Q No. I	Sericulture	03 marks
Q No. II	Apiculture	03 marks
Q No. III	Pest management	03 marks
Q No. IV	Pisciculture	03 marks
Q No. V	Vermiculture	03 marks
Q No. VI	Animal Husbandry	06 marks
Q No. VII	Prawn & Pearl culture	04 marks
✓ Q No. VIII	Project report & Viva	10 marks
Q No. IX	Journal	05 marks

Total 40 marks

Note 1 : Examiners can alter the Scheme of marks for practical in consultation With the staff of the host college.

Note 2 : Theory	Internal	20 marks
	Final	80 marks
Practical	Internal	10 marks
	Final	40 marks

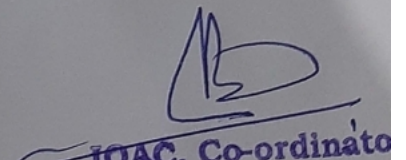
Note 3 : Question paper pattern for THEORY examination

Q No. I marks	02 marks	10* 02	= 20
Q No. II marks	05 marks	06* 05	= 30
Q No. III marks	10 marks	01* 10	= 10
Q No. IV marks	10 marks	01* 10	= 10
Q No. V marks	10 marks	01* 10	= 10

Note 4 : Q Nos IIIrd IV & V each should have one internal option



Principal,  
S.B. Arts and KCP Science College  
VIJAYAPUR



**IQAC, Co-ordinator**  
S.B.Arts & K.C.P.Science C  
Vijayapur.