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University of Mumbai

S.Y.B.Sc Zoology P-III (Elective 2)

Semester-IV (CBCSGC)

Q.P. Code: 65436

Time: 03 Hours

Marks: 100

- Q.1**
- A) Fill in the blanks by choosing the correct options given below: [05]**
- a) *Bubalus bubalis* 01
- b) ~~Home tract~~ Home tract 01
- c) ~~Hariyana~~ Hariyana 01
- d) Castor 01
- e) Crustaceans 01
- B) Match the columns I and II and rewrite [05]**
- | Column I | Column II | |
|----------------|-----------|----------------------------------|
| a) Pebrine | : | Protozoan disease of silkworm 01 |
| b) Finrot | : | Bacterial fish disease 01 |
| c) Monoculture | : | Single species of Carp 01 |
| d) Sahiwal | : | Multani 01 |
| e) Mugasilk | : | Champa 01 |
- C) State whether True or False [05]**
- a) True 01
- b) True 01
- c) False 01
- d) True 01
- e) True 01
- D) Answer the following in one sentence [05]**
- a) Malvi breed origin is Gwalior, Indore, Bhopal and nearby parts of Madhya Pradesh 01
- b) Castration is removal of testes in order to control reproductive ability 01
- c) Composition of silk fibrion-75% and sericin-25% 01
- d) Monovoltine species of silkworm are those which produce single brood per year 01
- e) Polyculture of fish is composite culture with different species 01
- Q.2**
- Answer any one from the following:
- A) Origin, distinguishing character and economic use of buffalo: [10]**
- Introduction 01
- Varieties of buffalo Nagpuri ,Bhadwari ,Jafrabadi and Murrah 02
- Origin, distinguishing character and economic use of buffalo 07
- OR**
- A) Types of diseases in cattle [10]**
- Introduction 01
- Viral, bacterial and fungal diseases 06
- Control of disease explanation with example 03
- B) Answer any two from the following: [10]**
- a) **Nagpuri breed of cattle [05]**
- Origin and importance 02
- Distinguishing characters 03
- b) **Hariyana breed of cattle [05]**

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	Origin and importance	02
	Distinguishing characters	03
c)	Distinguishing characters of Holstein	05
	Introduction and importance	02
	Distinguishing characters	03
d)	Economic importance of Jersey	05
	Jersey as exotic breed-introduction	01
	Commercial point of view such as yield	04
Q.3	Answer any one from the following:	
A)	Types of diseases in sericulture:	[10]
	Introduction	01
	Different types of diseases- with example	06
	Symptoms and control measures	03
	and harvesting	
	OR	
A)	Processing of cocoon:-	[10]
	Introduction	02
	Steps involved	04
	Explanation	04
B)	Answer any two from the following:	[10]
a)	Reeling of silk:	05
	Steps involved in process	01
	Explanation	04
b)	Bacterial diseases of silk worm <i>Host plants of silk worm</i>	05
	Introduction <i>Give Name of the plants</i>	01
	Symptoms and characters <i>and silk worms characters</i>	04
c)	Extraction of silk:	05
	Introduction	01
	Method and processing	04
d)	Harvesting of cocoon: <i>Eri silk worm</i>	05
	Introduction <i>Name of host plant</i>	01
	Process and explanation <i>Characters of worm</i>	04
Q.4	Answer any one from the following:	
A)	Fresh water prawn culture:	[10]
	Introduction to method	01
	Species used	02
	Description of technique and merits and demerits	07

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OR

- A) **Monoculture using suitable example:** [10]
Introduction to method 02
Species used 02
Description of technique and merits and demerits 06
- Q.4 B) Answer any two of the following: [10]
- a) **Scope of fishery resources in India:** 05
Status of Indian fishery, natural sources, 01
Opportunities, future scope and technical advancement 04
- b) **Composition of Pearl:** 05
Introduction 01
Composition of pearl with percentage- Calcium carbonate 88 to 90%, Organic Conchiolin 04
3.5 to 5.9%, water 2 to 4%, residue 0.1 to 0.8%
- c) **Cage culture:** 05
Introduction to method 01
Species used and description in brief 04
- d) **Fish diseases:** 05
Types of diseases such as bacterial, fungal, viral, their 03
Symptoms and control measures 02
- Q.5 Write short notes on any four: [20]
- a) **Weaning of calf** 05
Definition 01
Importance and methods in breeding of cattle 04
- b) **Inbreeding in cattle** 05
Definition 01
Method 03
Importance 01
- c) **Sexual dimorphism in adult silk moth** 05
Sexual dimorphism definition 01
Morphological and anatomical differences at specific stages 04
- d) **Tasar silkworm:** 05
Introduction, Origin 01
Distinguishing, characters, silk production 04
- e) **Fish seed transport:** 05