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4. Elaborate life cycle of *Leptocorisa acuta* with diagram. Describe its management strategies containing physical, chemical and biological control.

(8+7)

5. Describe the types of beehives in Apiculture and the equipment of bee keeping.

(15)

6. Write short note on the following (**any three**) :

(3×5=15)

(a) *Pyrilla perpusilla*

(b) Sericulture techniques

(c) Pearl culture

(d) *Ichthyobodo*

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 6634

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Unique Paper Code : 2234001205

Name of the Paper : Economic Zoology, GE-3

Name of the Course : **B.Sc. (H) Zoology**

Semester : II (NEP-UGCF)

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt **four** questions in all.
3. Question No. **1** which is compulsory.
4. Draw well labelled diagrams wherever required.

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1. (a) Define the following terms (**any three**) :
(3×1=3)

- (i) Mariculture
- (ii) Fecundity
- (iii) Mountage
- (iv) Host Plant Resistance (HPR)

- (b) Differentiate between **any three** of the following :
(3×2=6)

- (i) Pond Culture and Pen Culture
- (ii) Multivoltine and Bivoltine
- (iii) Queen and worker bees
- (iv) Antibiosis and Antixenosis Resistance

- (c) Fill in blanks : (4×1=4)

- (i) _____ is the cultivation of mulberry plants specifically to feed silkworms.
- (ii) A _____ kills its host slowly, often living inside it during development.

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- (iii) A natural reproductive process where a queen bee and worker bees leave a hive to establish a new colony is called _____ .

- (iv) _____ are chemical signals that benefit the sender but not the receiver.

- (d) Give the exact location and function of the following : (2×1=2)

- (i) Swimmerets (Pleopods)
- (ii) Spinneret

2. (a) What is Pisciculture? Explain monoculture and polyculture with examples. (8)

- (b) Comment upon the white-spot disease with its causative agent, symptoms and control. (7)

3. (a) Illustrate different culture methods of edible oyster with its economic importance. (9)

- (b) Briefly describe the Products of apiculture industry with its importance. (6)

P.T.O.