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ZOOLOGY

(Major) **II**

Paper : 3.4

(**Applied Zoology**)

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Candidates **eligible** for Internal Assessment shall
answer from PART—I only (Marks : 90)

Candidates **not eligible** for Internal Assessment shall
answer both from PART—I and PART—II (Marks : 100)

PART—I

(Marks : 90)

Group—A

(Marks : 50)

1. What do you mean by silk products? Write an account on varieties of silk products and their economies in India. 5+15=20

Or

Write about different diseases of silk worm, nature of infestation, their preventive and control measures. 10+10=20

2. Describe the external morphology of honeybee with the economies of beekeeping. 10+10=20



Or

What is composite fish culture? Write an account on induced breeding technique used for Indian major carp. 5+15=20

3. Define pests and pesticides. Discuss various hazards of pesticides. 2+8=10

Or

Write short notes on (any two) : 5×2=10

- (a) Lac culture
- (b) Integrated pest management
- (c) Biological control of pests

Group—B

(Marks : 40)

4. Write about the principle and uses of colorimeter and spectrophotometer. 10+10=20

Or

Discuss cryopreservation and its importance. Write about the cryopreservation of eggs and sperm. 5+15=20

(3)

5. What do you mean by genetic library? Describe the details about the isolation of mRNA and construction of cDNA library.

5+15=20

Or

What is clonning? Describe the process of clonning with a note on gene transfer.

2+10+8=20

PART—II

(Marks : 10)

(In lieu of Internal Assessment)

6. Describe the computer-aided technique for data presentation and data analysis. 10

Or

What is tissue culture? Describe sterilization and cell harvesting methods.

2+8=10
