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ZOOLOGY

(Major)

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. Describe the process of rearing of muga silk worm with the effect of environmental conditions. 10+10=20

(2)

Or

Describe the process of castes distinction during the development of honeybee and colony formation. $12+8=20$

2. What do you mean by pond fisheries? Write about the construction and layout of ponds of a fish farm. $2+9+9=20$

Or

Discuss biological control of pests. What are the advantages of biological control? $2+18=20$

3. Write notes on (any two) : $5 \times 2 = 10$
- (a) Lac culture
 - (b) Life history of honeybee
 - (c) Freshwater fish groups in India
 - (d) Integrated pest management

GROUP—B

(Marks : 40)

4. Describe the working principles of phase contrast and fluorescence microscopy. $10+10=20$

Or

What is autoradiography? Write about the use of radioisotopes in biology. $5+15=20$

(3)

5. What is genetic engineering? Write how enzymology helps in genetic engineering.

5+15=20

Or

- What is operating system in computer? Write about the system DOS and Windows. 4+8+8=20

PART—II

(Marks : 10)

(In lieu of Internal Assessment)

6. Write about the culture of freshwater prawn. 10

Or

Write about the programming using C.
