



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Sec 1st Semester Examination, 2023

UZOSE11001-ZOOLOGY

SERICULTURE AND APICULTURE

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Answer any **five** questions from the following: 1×5 = 5
 - (a) What is voltinism?
 - (b) Name any two disinfectant used in sericulture.
 - (c) Mention the ideal temperature and humidity required for rearing silkworm.
 - (d) What is pollen basket?
 - (e) What is bee wax?
 - (f) What is propolis?
 - (g) Write the composition of Royal jelly.
 - (h) Write the uses of bee venom.

2. Answer any **three** questions from the following: 5×3 = 15
 - (a) What are the physical characterisation of cocoon considered for commercial purpose or cocoon marketing?
 - (b) Mention the advantages and disadvantages of using Chandraki.
 - (c) Write in brief the uses of silk.
 - (d) Briefly explain the causes, symptoms and control measure of a protozoan and a fungal disease of honey bee.
 - (e) Write a short note on the indigenous method of extraction of honey.

3. Answer any **two** questions from the following: 10×2 = 20
 - (a) What do you understand by the term silkworm rearing? Distinguish between early-age and late-age rearing. 5+5
 - (b) Explain in detail the factors and measures controlling yield of honey. Explain the relationship of bee keeping with climate. 6+4
 - (c) Write the uses of the following bee product: 2 $\frac{1}{2}$ ×4=10
 - (i) Honey
 - (ii) Bee wax
 - (iii) Propolis
 - (iv) Bee venom
 - (d) Discuss the role of swarming, absconding and supersedure in multiplication, survival and viability of the colony. What do you mean by differential feeding of larvae in honey bee? 8+2

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