

**U.G. 5th Semester Examination - 2021**

**ZOOLOGY**

**[PROGRAMME]**

**Skill Enhancement Course (SEC)**

**Course Code : ZOOL-G-SEC-T-03**

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** of the following: 2×5=10
  - a) Name silkworms hybrids cultivated in spring season in West Bengal (any two).
  - b) Write the control measures of *Pediculus ventricosus*.
  - c) Mention the location and functions of Lyonnet's gland.
  - d) Write the morphological differences between female and male silkworm pupa.
  - e) What is shell ratio of silkworm cocoon?
  - f) Why Bivoltine races of silkworm is more fruitful than multivoltine ?
  - g) What is vanya silk? Mention the host plant of tasar silkworm.

- h) Write the voltinism and cocoons shape of silkworm hybrid NB4D2 and KA.
2. Answer any **two** of the following: 5×2=10
    - a) Name the causal organism of white flacheriae disease. Mention its symptoms and control measures. 1+2+2=5
    - b) Write a short note on Histology of silk gland. 5
    - c) What is Kharika and Chaloni? Mention its role in silkworm rearing. 2+3=5
    - d) Write the modifications introduced by Dr. Kawakami of JICA in Indian sericulture. 5
  3. Answer any **two** of the following: 10×2=20
    - a) What is silk? Write the chemical processing of raw silk for silk production. 2+8=10
    - b) Write the name of *Nosema* strains cause pebrine disease. Briefly describe mode of transmission and control measures of muscardine disease and pebrine disease. 2+4+4=10
    - c) Classify the silkworm cocoons on the basis of cocoon quality and mention the factors that influencing cocoon quality. 7+3=10
    - d) What is chawki rearing of silkworm? Mention the various steps of silkworm rearing. 2+8=10