

2021

ZOOLOGY — HONOURS

Paper : SEC-A-2

(Sericulture)

Full Marks : 80

The figures in the margin indicate full marks.

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

1. Answer **any twenty** questions :

2×20

- (a) What is instar?
- (b) Name any two bed disinfectants used during silkworm rearing.
- (c) Name two minor pests of *Bombyx mori*.
- (d) What are the proteins contained in silk?
- (e) What do you mean by voltinism?
- (f) What is the scientific name of uzi fly?
- (g) What is Pin-head stage?
- (h) Which is the causal agents of muscardine disease of silkworm? Mention its scientific name.
- (i) Expand D.F.L.
- (j) In which order and family *Bombyx mori* belongs to?
- (k) What is spun silk?
- (l) Define silk route.
- (m) Define incubation.
- (n) What is handling of eggs?
- (o) What is black-boxing?
- (p) Mention two mountages used in silkworm rearing.
- (q) Mention the use of cellule.
- (r) Name a host plant of Muga silk moth with its scientific name.
- (s) Write two symptoms of flacherie disease infected silkworm larva.
- (t) Write two commercial races of silkworm *Bombyx mori*.
- (u) Mention two rearing appliances.

Please Turn Over

- (v) Name two propagation methods practised in mulberry cultivation.
- (w) What is called pruning?
- (x) Mention two advantages of grafting propagation practised in mulberry garden.
- (y) What is brushing?
- (z) What is the significance of spacing in rearing tray during silkworm rearing?

2. Answer **any eight** questions from the following :

- (a) State the distinctive features of silk threads of tasar, muga, eri and mulberry silk. 5
 - (b) Why sericulture is considered as an agro-based cottage industry? 5
 - (c) What is I.P.M? Comment on its impact in sericulture. 2+3
 - (d) What is brushing? Discuss different brushing processes followed in silkworm rearing. 2+3
 - (e) What are the precautions to be taken during moulting? Mention two identifying characters of a moulted larva. 3+2
 - (f) Briefly describe the ideal condition of a rearing house. 5
 - (g) Describe briefly the prospects of sericulture in India. 5
 - (h) Differentiate between chawki rearing and late age rearing of silkworm. 2½+2½
 - (i) 'Pebrine is a transovarian disease'— Discuss. 5
 - (j) What is ERR? Describe the process of 'seed production' in sericulture industry. 1+4
 - (k) Name the pathogen causing bacterial disease in mulberry silkworm. Comment on its symptoms and the control measures. 1+2+2
 - (l) Comment on the roles of C.S.B. in promoting sericulture industry in India. 5
 - (m) What are the strategies to be adopted for setting up mulberry garden for long-term basis? 5
 - (n) Write down the scientific names of the mulberry and non-mulberry silkworms in India. What is moulting? 3+2
 - (o) Discuss the significance of abiotic factors for completing multivoltine life cycle of silkworm. 5
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