

**2020**

**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 do you mean by muscardine disease?
- (b) What is denier?
- (c) Define D.F.L.
- (d) Write the systematic position of silkworm.
- (e) What is instar?
- (f) Mention the scientific name of Uzi fly.
- (g) What is spun silk?
- (h) What is silk route?
- (i) What is the damage caused by dermestid beetles?
- (j) What is brushing?
- (k) What is the host plant of Tasar Silk moth?
- (l) What is the scientific name of the Muga Silk moth?
- (m) Write two symptoms of Grasserie disease.
- (n) What is RKO?
- (o) What is labial gland?
- (p) What is spinning?
- (q) What is tetramoulting in silkworm?
- (r) What are the different parts of cocoon?
- (s) Mention two pests of mulberry plant.
- (t) Write two important varieties of mulberry.
- (u) What is the ideal spacing of mulberry plantation in a garden?

**Please Turn Over**

- (v) What is the importance of late age rearing?
- (w) How do you distinguish between male and female pupa of silkworm?
- (x) What is Gattine disease?
- (y) What is Shelf rearing?
- (z) What is the significance of bed cleaning?

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

- (a) Describe silk gland with suitable diagram. 3+2
  - (b) Distinguish between hibernating and non-hibernating eggs of silkworm. What is diapause? 3+2
  - (c) What are the different types of moulting? Write about harvesting methods of mulberry cocoon. 3+2
  - (d) What is pebrine disease? Add a note on symptoms and control of it. 1+2+2
  - (e) State the mode of infestation of Uzi fly and its control. 3+2
  - (f) Describe the importance and methods of chawki rearing. 5
  - (g) State briefly the life cycle of *Bombyx mori*. 5
  - (h) State the distribution and races of exotic and indigenous races of *Bombyx mori*. 5
  - (i) What are the ideal characters of a mulberry rearing house? What are the rearing appliances used for mulberry rearing? 2+3
  - (j) "Sericulture is an agro-based industry"— Explain in brief. 5
  - (k) Describe the role of 'black boxing process' for silkworm eggs. 5
  - (l) What is synchronization of emergence of adult? Mention the conditions for silkworm growth and development. 2+3
  - (m) What is molting? Classify silkworm on the basis of voltinism. 1+4
  - (n) Explain NPV disease. Add note on its symptoms and control. 1+2+2
  - (o) Write a note on composition of silk. How different colours of mulberry cocoons are produced? 3+2
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