

UG (CBCS) IIIrd Year (Annual) Examination

2549

B.Sc. ZOOLOGY

(Sericulture)

(SEC-III)

Paper : ZOOL 303 TH

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt *five* questions in all, selecting at least *one* question from each of the Section B, C, D and E. Question No. 1 of Section A is compulsory.

Section-A

(Compulsory Question)

1. (a) Do as directed :

(i) Scientific name of Muga silkworm is

..... .

(ii) Silk is a secretion of silkworm from specialized glands.

(iii) Full form of RKO is

CH-374

(1)

Turn Over

(iv) disease of mulberry plants is caused by a nematode.

(v) Young age silkworms upto second instar are called

(vi) Assam is famous for which type of silk ?

- (a) Muga silk (b) Butterfly silk
(c) Tasar silk (d) None of these

(vii) Which one of the following mountages is most commonly used in South India and West Bengal ?

- (a) Bottle brush mountage
(b) Chandrika mountage
(c) Plastic mountage
(d) Rotary mountage

(viii) Most common and worst disease of silkworm is :

- (a) Grasserie (b) Flacherie
(c) Muscardine (d) Pebrine

(ix) Muga silkworm is :

- (a) Univoltine (b) Bivoltine
(c) Polyvoltine (d) Multivoltine

(x) "Silk Mark Scheme" was started in

(a) 1994

(b) 1998

(c) 2004

(d) 2008

1 × 10 = 10

(b) Differentiate the following (at least *two* differences) :

(i) Bombyx mori and Antheraea paphia

(ii) Antheraea assamensis and Puposomia ricini

(iii) Histogenesis and histolysis

(iv) Plastic mountage and Bamboo strip mountage

2 × 4 = 8

Section-B

2. Explain in detail the origin and history of sericulture. 13

3. What is Silk ? Explain in detail the various types of silkworms and the types of silk they produce. 13

Section-C

4. (a) Discuss the taxonomic position of silkworm.

(b) Enumerate the life cycle of Bombyx mori with the help of neat and labelled diagrams. 3,10

5. (a) Explain in detail the different types of mountages.

(b) What are the infectants recommended for sericulture. 8,5

Section-D

6. Name the various diseases of silkworms. Explain the causative agent, epidemiology, symptoms, prevention and control of any *two* of them. 13
7. (a) Explain in detail about Cocoon harvesting.
- (b) Explain in detail about Cocoon drying and storage of Cocoons. 6½, 6½

Section-E

8. (a) Compare the causative agent and symptoms of powdery mildew and root knot diseases of mulberry plants.
- (b) Describe the establishment and functions of CSRTI and NSSO. 5,8
9. (a) Write the full form of the following :
- (i) SMOI
 - (ii) CSGRC
 - (iii) SBRL 1×3=3
- (b) What are the prospects of sericulture in India? Also highlight the challenges for the future of Indian Sericulture Industry. 10