

**CERTIFICATE IN SERICULTURE (CIS)**

**Term-End Examination**

**December, 2012**

**00571**

**BLP-004 : CROP PROTECTION**

*Time : 2 hours*

*Maximum Marks : 50*

*Note : Attempt any five questions. Question - 1 is compulsory.*

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1. Answer in one sentence (*any ten*). 10x1=10
- (a) What is solarization of soil ?
  - (b) How reduviidae bug attacks tasar silkworm ?
  - (c) Which is the recommended biocontrol agent of uzi fly attacking mulberry silkworm ?
  - (d) Which is the most commonly used bed disinfectant ?
  - (e) Pebrine disease is transmitted from \_\_\_\_\_ to offspring.
  - (f) Name the physical method of controlling uzi fly.
  - (g) Which is the causal organism of powdery mildew disease in mulberry ?
  - (h) Against which pest, sprinkler irrigation is set up ?
  - (i) What causes seedling blight in castor ?
  - (j) What are pre-disposing factors ?

- (k) What is the chemical name of Dithane M-45 ?
- (l) Which disease of muga silkworm is called Phularog ?

2. Tick (✓) the correct answer : 10x1=10

(a) Carben-dazim is the chemical name of :

- (i) Furadon                      (ii) Bavistin
- (iii) Karathane                (iv) Kavach

(b) Nursery-Guard contains :

- (i) *Trichoderma pseudokoningii*
- (ii) Bavistin
- (iii) Dithane M-45
- (iv) Karathane

(c) DDVP 0.2% is the chemical control measure against :

- (i) Wingless grasshopper
- (ii) Mealy bug
- (iii) Termite
- (iv) None of the above

(d) Exposure of pierced/stifled cocoons to sunlight is a control measure against :

- (i) Dermestid beetle
- (ii) Uzi fly
- (iii) White fly
- (iv) Jassid

(e) *Terminalia tomentosa* is the food plant of :

- (i) Mulberry Silkworm
- (ii) Muga Silkworm
- (iii) Eri Silkworm
- (iv) Tasar Silkworm

- (f) Powdery mildew in tasar silkworm host plant is caused by :
- (i) *Phyllactinia corylea*
  - (ii) *Cercospora moricola*
  - (iii) *Cercospora ricinella*
  - (iv) None of the above
- (g) Microsporidiosis (Pebrine disease) in tasar silkworm is caused by :
- (i) *Aspergillus flavus*
  - (ii) *Nosema bombycis*
  - (iii) *Nosema mylittensis*
  - (iv) *Thelohania sp.*
- (h) Uzi maggot pierces into host body using :
- (i) Mandible
  - (ii) Prothoracic hook
  - (iii) Probocis
  - (iv) None of the above
- (i) *Rattus rattus* is a pest of :
- (i) Erisilkworm
  - (ii) Mulberry
  - (iii) Castor
  - (iv) Tasar Silkworm
- (j) Stink bug sucks the body fluid (hemolymph) of :
- (i) Mulberry Silkworm
  - (ii) Eri Silkworm
  - (iii) Tropical tasar Silkworm
  - (iv) Muga Silkworm

3. Answer *any four* in 5-6 sentences :  $4 \times 2.5 = 10$

- (a) Signal words on fungicide packet
- (b) Symptoms of virosis
- (c) Integrated Pest Management against *Exorista bombycis*
- (d) Foliar diseases of mulberry and their causal agents
- (e) Chemical control of root rot disease.

4. Match the following :  $10 \times 1 = 10$

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|-------------------------------|--------------------------------------|
| (a) Deltamethrin              | (i) Root knot control                |
| (b) Leaf gall                 | (ii) Mulberry pest                   |
| (c) <i>Staphy lococcus</i>    | (iii) White muscardine               |
| (d) Stem canker               | (iv) Pests of muga silkworm          |
| (e) Monocrop                  | (v) <i>Botryodiplodia theobromae</i> |
| (f) Phutuka                   | (vi) <i>Trioza flatcheri</i>         |
| (g) Ants                      | (vii) Bacterial flacherie            |
| (h) Furadon                   | (viii) Pest outbreak                 |
| (i) <i>Beauveria bassiana</i> | (ix) Dermestid beetle control        |
| (j) Wingless grasshopper      | (x) Pebrine disease of muga silkworm |

5. Write notes on *any five* in 2-3 sentences :  $5 \times 2 = 10$

- (a) Factors responsible for occurrence of grasserie
- (b) Fungicide toxicity
- (c) Root rot disease
- (d) Hopper burn
- (e) IPM against tukra
- (f) *Nosema mylittensis*
- (g) Fusarium Wilt

6. Explain the schedule of disinfection of silkworm rearing house. Add a note on hygiene practices during rearing. 10
  7. What are systemic and non-systemic fungicides ? Write on the composition of a fungicide and precautions to be taken during its spraying. 10
  8. What are the different diseases affecting mulberry silkworm ? Identify one symptoms/signs for each disease. Briefly discuss the disease management of mulberry silkworm. 10
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