## **CERTIFICATE IN SERICULTURE (CIS)**

## Term-End Examination

June, 2013

00831

## **BLP-004: CROP PROTECTION**

Time: 2 hours Maximum Marks: 50

Note: Answer any five questions. Question - 1 is compulsory.

- 1. Answer in *one* sentence. (Any ten) 10x1=10
  - (a) Name the pathogen that causes leaf rust in mulberry.
  - (b) To which family *Exorista bombycis* belongs?
  - (c) Which disease of muga silkworm is called Phularog?
  - (d) What is the scientific name of the hairy caterpillar attacking eri silkworm host plants?
  - (e) Which is the biocontrol agent of uzifly attacking *Bombyx mori*?
  - (f) What is the name of the symptom caused by jassid attack in mulberry?
  - (g) What is the chemical name of Dithane M-45?
  - (h) What is the common name of the pest, *Holotrichia serrata*?

- (i) What is the causal organism of leaf spot disease in eri silkworm host plants?
- (j) Which is the silkworm disease that transmits from one generation to another?
- (k) Which is the pest prevalent in silkworm egg production centres?
- (l) Which is the parasitoid that attacks muga silkworm?

## 2. Tick $(\checkmark)$ the correct answer :

10x1=10

- (a) Microsporidiosis (pebrine disease) in tasar silkworm is caused by :
  - (i) Nosema Mylittensis
  - (ii) Beauveria bassiana
  - (iii) Nosema bombycis
  - (iv) Pleistophora sp.
- (b) Odontotermes sp. is the scientific name of :
  - (i) Cutworm
  - (ii) Jassid
  - (iii) Termite
  - (iv) None of the above
- (c) Uzifly lays eggs:
  - (i) In the body of silkworm
  - (ii) On the body of silkworm
  - (iii) Away from the body of silkworm
  - (iv) None of the above

(d)	Nurs	sery-Guard c	ontai	ns:	
	(i)	Dithane M	-45		
	(ii)	Trichoderma	ı Pseu	ıdokoningii	
	(iii)	Bavistin			
	(iv)	Karathane			
(e)	The signal word 'DANGER' indicates that				
	the p	product is :			
	(i)	Highly toxi	.C		
	(ii)	Toxic			
	(iii)	Slightly tox	ic		
	(iv)	Moderately	toxic		
(f)	Chlo	orine dioxide	is a:		
	(i)	Room disir	ıfecta	nt	
	(ii)	Bed disinfe	ectant:		
	(iii)	Silkworm g	growt	h promoter	
	(iv)	None of the	e abov	ve	
(g)	Terminalia arjuna is the food plant of :				
	(i)	Eri silkwor	m		
	(ii)	Tasar silkw	orm		
	(iii)	Muga silkv	vorm		
	(iv)	Mulberry s	ilkwo	orm	
(h)	Preying mantis is a :				
	(i)	Predator			
		Pathogen			
	, ,	Parasitoid			
	(iv) None of the above				
(i)	Fusarium solani attacks mulberry:				
	(i)	Shoot	(ii)	Stem	
	(iii)	Leaf	(iv)	Root	

(j)		stichus howardi is recommended for			
	conti	ol of:			
	(i)	cutworm			
	(ii)	Leaf roller			
	(iii)	Bihar hairy caterpillar			
	(iv)	Termite			
		au four in 5-6 sentences: $4x2.5=10$			
		y jour in a discretization			
(a)	Chemical control of root rot disease				
(b)	Symptoms of virosis				
(c)	Vijetha				
(d)	Biological control of uzifly				
(e)	Precautions to be taken after spraying				
	fung	icide			
		he different diseases affecting mulberry 10? Identify one symptom/sign for each			
silkv	vorm	? Identify one symptom/sign for each			
silkv disea	vorm ase. E	? Identify one symptom/sign for each riefly discuss the disease management			
silkv disea	vorm ase. E	? Identify one symptom/sign for each			
silkv disea of m	vorm ase. E ulber	? Identify one symptom/sign for each riefly discuss the disease management			
silkv disea of m	vorm ase. E aulber te note	? Identify one symptom/sign for each criefly discuss the disease management cry silkworm.			
silkv disea of m Writ	worm ase. E ulber te note Che	? Identify one symptom/sign for each criefly discuss the disease management ry silkworm.  es on <i>any five</i> in <b>2-3</b> sentences: $5x2=10$			
silkv disea of m Writ (a)	vorm ase. Enulber te note Che Sym	? Identify one symptom/sign for each criefly discuss the disease management ry silkworm.  es on <i>any five</i> in 2-3 sentences: 5x2=10 mical control of uzifly			
silkv disea of m Writ (a) (b) (c)	vorm ase. E aulber e note Che Sym Soil	? Identify one symptom/sign for each criefly discuss the disease management by silkworm.  es on <i>any five</i> in <b>2-3</b> sentences: 5x2=10 mical control of uzifly ptoms of pebrine in <i>B.mori</i> larva			
silkv disea of m Writ (a) (b) (c)	vorm ase. Faulber te note Che Sym Soil Hole	? Identify one symptom/sign for each criefly discuss the disease management by silkworm.  es on <i>any five</i> in 2-3 sentences:  mical control of uzifly ptoms of pebrine in <i>B.mori</i> larva injector			
silkv disector of m Write (a) (b) (c) (d)	vorm ase. E aulber ce note Che Sym Soil Hole Fusa	? Identify one symptom/sign for each criefly discuss the disease management ry silkworm.  es on <i>any five</i> in 2-3 sentences: 5x2=10 mical control of uzifly ptoms of pebrine in <i>B.mori</i> larva injector strichia serrata			
silkv disea of m Writ (a) (b) (c) (d) (e)	vorm ase. E tulber te note Che Sym Soil Hold Fusa Blep	? Identify one symptom/sign for each criefly discuss the disease management by silkworm.  es on any five in 2-3 sentences:  mical control of uzifly ptoms of pebrine in B.mori larva injector  etrichia serrata			

3.

4.

5.

- Give an account of the factors responsible for mulberry pest outbreak. Explain the symptoms of tukra in mulberry.
- 7. Enumerate the parasites and predators of tasar silkworm. Give an account on the occurrence, damage and management of *Blepharipa zebina*.
- 8. Discuss about fungicides and their toxicity. 10 Describe the equipments used for spraying of fungicides.