## MIZORAM PUBLIC SERVICE COMMISSION

## Limited Departmental Examination for Promotion to Sericulture Extension Officer under Sericulture Department, Government of Mizoram. September-2024

## **PAPER - IV**

Time Allov	Full Marks : 100 Pass Marks : 40	
Marks for each question is indicated against it.		
Attempt all questions.		
1. Fill i	n the blanks with the correct answer:	(10×1=10)
(a)	Pebrine desease is caused by (Bomby)	: mori/Nosema bombysis)
	Silkworm lay eggs. (hibernating /non-hibernating)	
	Flacherie is adisease. (Fungal/Bacterial)	
	In hibernating eggs, the embryo develops only half way, undergoes a stage of dormancy called (diapauses/non-diapause)	
(e)	White muscardine disease is caused by(	Streptococcus bombycis/Beuvaria bassiana)
(f)	Usually moth emergence take place in the (evening/morning)	
(g)	In loose egg preparation eggs are easily removed. (unfertilized/fertilized)	
(h)	Male moth can be stored for about days	in 5°C. (7/10)
(i)	Pebrine spores can be identified at a magnification oftimes. (100/600)	
(j)	Female cocoons can be preserved at 5°C for	days. (2-3/5-6).
2. Matc	th the column:	(5×1=5)
	A	<u>B</u>
(a)	White root rot (i)	Cercospora moricola
(b)	Leaf spot (ii)	Peridiospora mori
(c)	Leaf rust (iii)	Rosellinia necatrix
(d)	Dwarf (iv)	Helicobasidium mompa
(e)	Violet root rot (v)	mycoplasma
3. Ansv	ver the following questions:	(7×1=7)
(a)	a) Name the instrument used for the detection of pebrine spores.	
(b)	What is the optimum humidity for the preservation of seed cocoons?	
(c)	Name the disinfectant used to remove gummy substance from silkworm eggs.	
(d)	What is the instrument used for measuring specific gravity of Hydrochloric acid(HCL) solution?	
(e)	What is the main aim of moth examination?	
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(f) What is the optimum duration of coupling for male and female moth?

(g) Name two disinfectant used for disinfecting loose eggs.

4. Answer the following:  $(3 \times 2 = 6)$ (a) What are the uses of waste moth? (b) Differentiate between male and female pupae. (c) What is Oviposition? 5. Write down the symptoms of the following mulberry diseases: (4+4=8)(b) White root rot (a) Leaf spot (4+4=8)6. Write down the control measures of the following mulberry diseases: (b) Root rot (a) Powdery Mildew 7. Write short notes on:  $(2 \times 4 = 8)$ (a) Transportation of seed cocoons (b) Loose egg preparation  $(3 \times 4 = 12)$ 8. Differentiate between: (a) Reproductive seeds and Industrial seeds (b) Hibernating and non hibernating eggs (c) Loose eggs and sheet eggs (3+3=6)9. Write down the disease symptoms of the following: (b) Septicemia (a) Muscardine  $(2 \times 6 = 12)$ 10. Answer the following in details: (a) Explain the methods of moth examination. (b) Explain the different methods of incubation of silkworm eggs. 11. What is Pebrine disease? Name the causative agent and describe the disease symptoms and preventive (1+1+3+4=9)measures. 12. What is Graserrie? Name the causative agent and mention the disease symptoms and control measures. (1+1+3+4=9)

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