

2020

SERICULTURE**Paper: Course-01 (Gr. A&B)****(Mulberry Production & Mulberry Crop Protection)**

Full Marks : 60

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***GROUP-A****(Marks: 30)****(Mulberry Production)**

1. Answer any **five** questions: 1×5=5
- What is water potential?
 - Name one widely cultivated variety of mulberry of India.
 - Name one antitranspirant.
 - Name one plant hormone which enhances the growth of mulberry plant.
 - Mention the role of molybdenum in the growth of mulberry plant.

[Turn Over]

f) Name one weed (scientific name) of mulberry field.

g) Write the name of a biofertilizer.

2. Answer any **three** of the following : 5×3=15

a) Name five cultivated varieties of mulberry plant of the world.

b) What is Red drop? Explain in brief.

c) What is liming factor? Explain in brief.

d) Differentiate between essential elements and trace elements.

e) Explain Apical dominance.

3. Answer any **one** of the following : 10×1=10

a) Describe the role of organic matter and soil moisture in relation to growth of mulberry plant.

b) Discuss different methods of weed management in a mulberry plant field.

GROUP-B**(Mulberry Crop Protection)****(Marks: 30)**

4. Answer any **five** of the following: 1×5=5

a) Name one mycoplasmal disease of mulberry.

- b) Write the name of a fungicide used in mulberry cultivation.
 - c) Mention the types of damage of mulberry plant caused by Mealy bug.
 - d) Define epidemiology of mulberry.
 - e) Name one biotic and one abiotic factors on the incidence of mulberry diseases.
 - f) What type of damage caused by jassid?
 - g) What is plant quarantine?
5. Answer any **three** of the following : $5 \times 3 = 15$
- a) Write the symptoms of any fungal disease of mulberry.
 - b) Give an overview of different diseases of mulberry.
 - c) Schematically present the life cycle of bihar hair caterpillar.
 - d) Mention different control measures for bacterial diseases of mulberry.
 - e) State the mode of action of insecticides for the control of mulberry pest.

6. Answer any **one** of the following : $10 \times 1 = 10$
- a) Describe the Root knot disease of mulberry indicating name of the pathogen, occurrence, symptoms and control measures.
 - b) Describe the process of integrated disease management in mulberry.
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Date of Examination:

16.7.2021, Time: 12:00 Noon – 02:30 PM