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Register Number:

7224

Name of the Candidate:

DIPLOMA EXAMINATION - 2010

(BIO-PESTICIDES TECHNOLOGY AND BIO-FERTILIZER PRODUCTION)

(PAPER – II)

120. BIO-PESTICIDES – II

December)
Hours

(Time: 3

Maximum: 100 Marks

SECTION – A

I. Define any FIVE of the following:

(5 × 2 = 10)

1. Antibiosis.
2. Competition.
3. Siderophores.
4. Kings B medium.
5. Bio control.
6. Microbial consortia.
7. Bacteriophages.

SECTION – B

II. Write short notes on any FIVE of the following:

(5 × 6 = 30)

1. Serial dilution technique.
2. Capsule application of bio agents.
3. Talc powder.
4. PGPR.
5. Inoculum potential.
6. Antagonistic activity.

SECTION – C

III. Answer in detail on any FIVE of the following:

(5 × 12 = 60)

1. Explain the mass multiplication of *Pseudomonas/Fluorecens*.
2. Discuss the importance of bio control agents in the management of soil borne diseases

with suitable examples.

3. Describe the mode of action of fungal and bacterial antagonists against plant pathogens.
4. Explain in detail the recommended bio control agents for the following crop diseases with delivery system and quantity of application:
 - a. Panama wilt in banana.
 - b. Root rot in gingelly.
 - c. Rice blast.
 - d. Seedling blight in vegetables.
5. Discuss the management of post harvest diseases in horticultural crops with bio pesticides.
6. Write in detail about the procedure for isolation and mass multiplication of *Trichoderma viride*.
7. Enumerate the merits and demerits of bio control agents in plant disease management.

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