

**Scientific Officer (Ent):** Selection to the post will be based on written test, PPT and interview.

**Syllabus: for written test and interview:**

1. Principles and concepts of IPM
  2. Agro- ecosystem Analysis
  3. Ecosystem Concepts
  4. Ecosystem Services
  5. Pesticide Resistance, pest resurgence, secondary pest outbreak and pest replacement
  6. Biological control for pest management
  7. Concepts of Bio- security & Plant Quarantine
  8. WTO –Phytosanitary measures in international Trade with reference to insect pests
  9. Invasive alien species
  10. Ecological Engineering for pest management
  11. Companion plants and their role in Push-Pull strategy for pest management
- Insect pests and defenders of Rice, Wheat, Red gram, Cotton, Tomato, and chillies.