

# ICAR AIEEA PG 2025 Entomology and Nematology Question Paper

**Time Allowed :120 Minutes**

**Maximum Marks :480**

**Total questions :120**

## General Instructions

**Read the following general instructions carefully and adhere to them strictly:**

1. **Duration of the Exam:** The total duration of the examination is 2 hours and 30 minutes.
2. **Total Marks:** The question paper carries a total of 480 marks.
3. **Number of Questions:** The paper contains 120 multiple-choice questions (MCQs)
4. **Question Paper Format:**
  - All questions are compulsory unless otherwise instructed.
  - Each question has four options, out of which only one is correct.
5. **Mode of Examination:** The examination is conducted in online mode (Computer-Based Test).
6. **Marking Scheme:**
  - Each correct answer carries 4 marks.
  - 1 mark will be deducted for each incorrect answer.
  - No marks will be awarded or deducted for unattempted questions.
7. **Medium of Paper:** The question paper will be bilingual (English and Hindi), except for the language section (if applicable).
8. **Electronic Devices:** Use of calculators, mobile phones, smartwatches or any electronic gadgets is strictly prohibited.

**1. Which of the following is the vector of the rice tungro virus?**

- (A) *Nilaparvata lugens*
  - (B) *Nephotettix virescens*
  - (C) *Sogatella furcifera*
  - (D) *Laodelphax striatellus*
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**2. The term 'hypermetamorphosis' refers to:**

- (A) Complete metamorphosis with similar larval stages
  - (B) Incomplete metamorphosis with aquatic nymphs
  - (C) Complete metamorphosis with dissimilar larval stages
  - (D) Direct development without metamorphosis
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**3. Which nematode is known for causing 'root-knot' disease in plants?**

- (A) *Heterodera avenae*
  - (B) *Meloidogyne incognita*
  - (C) *Pratylenchus penetrans*
  - (D) *Ditylenchus dipsaci*
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**4. The 'sterile insect technique' (SIT) is primarily used for:**

- (A) Enhancing pollination efficiency
  - (B) Biological control of weeds
  - (C) Controlling insect pest populations
  - (D) Improving insecticide resistance
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**5. Which of the following is a characteristic feature of entomopathogenic nematodes?**

- (A) They are obligate plant parasites
  - (B) They have a symbiotic relationship with bacteria
  - (C) They reproduce only in aquatic environments
  - (D) They are vectors of plant viruses
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**6. Which insect order is characterized by the presence of halteres?**

- (A) Lepidoptera
  - (B) Coleoptera
  - (C) Diptera
  - (D) Hymenoptera
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**7. The term 'quiescence' in insects refers to:**

- (A) A genetically programmed dormancy period
  - (B) A temporary halt in development due to unfavorable conditions
  - (C) A period of increased metabolic activity
  - (D) The pupal stage in holometabolous insects
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**8. Which of the following nematodes is known to cause 'yellow ear rot' in wheat?**

- (A) *Anguina tritici*
  - (B) *Heterodera avenae*
  - (C) *Pratylenchus thornei*
  - (D) *Ditylenchus dipsaci*
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