

M.Sc. (Ag.) Plant Protection Examination 2015

Semester -II

Course : AEN - 505

(Pests of Field Crops and Their Management)

Time : Three Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. Name some major insect pests of jute. Briefly mention the biology and nature of damage of any two pests of jute. Suggest sustainable pest management strategy for better production of jute.
2+5+3=10
 2. Enlist with scientific names some insect pests considered as major limiting factor for oilseed production. Briefly describe the seasonal incidence and nature of damage of any two pests one each from Lepidoptera and Homoptera. Suggest non-chemical control measures for the pests of any oilseed crop.
3+5+2=10
 3. Enumerate important insect pests of pulses. Briefly discuss the nature and symptoms of damage of any three pests. Mention eco-friendly pest management practices against the pests of pulses.
2.5+4.5+3.0=10
 4. Name the insect pests constraints of maize. Describe the bio-ecology and nature of damage of two borer pests one each from Lepidoptera and Diptera. Suggest IPM practices for managing the pests of maize.
2+5+3=10
 5. Write short notes on the following (**any four**) :
2.5×4=10
 - (i) Sugarcane internode borer
 - (ii) Rice stem borer
 - (iii) Rice case worm
 - (iv) Gurdaspur borer of sugarcane
 - (v) American cotton bollworm
 - (vi) Wheat aphid
 6. Differentiate the nature of damage of the following pests (**any four**) :
2.5×4=10
 - (i) Leaf folder and Whorl maggot in rice
 - (ii) Termite and Pink stem borer in wheat
 - (iii) Mealy bug and Green leaf hopper in rice
 - (iv) Cotton leaf roller and Cotton white fly
 - (v) Root borer and Mealy bug in sugarcane
 7. Write two important nonchemical control measures for the insect causing following damage symptoms :
2×5=10
 - (i) Bunchy top of sugarcane
 - (ii) Hopper burn in rice
 - (iii) Double seeded cotton
 - (iv) Onion leaf of rice
 - (v) Cotton stainer
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