

M.Sc. (Ag.) Examination, 2017

Semester-II

Plant Protection

Course – AEN-505

(Pests of field crop and their management)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. Enumerate the important insect-pests of pulses along with their systematic position. Give a brief account of host, seasonal incidence and nature and symptoms of damage caused by pod borer complex of pulses. Suggest suitable eco-friendly management practices for the mentioned insect-pests. 2+4+4=10
 2. State the reasons why cotton is more favoured by insect-pests infestation. Enumerate the insect-pests of cotton with their systematic position according to the crop growth stages. Why is it necessary to fumigate the cotton seed? Suggest suitable IPM practices for important insect-pests of cotton. 2+2+1+5=10
 3. Enlist the important insect-pests of groundnut along with their taxonomic position. Illustrate on the nature and symptoms of damage of any three important insect-pest of groundnut. Suggest suitable management practices of the above mentioned insect-pests. 2+3+5=10
 4. Why sugarcane is vulnerable to insect-pest infestation? Enumerate the important insect pests of sugarcane with their taxonomic position. Describe the nature and symptoms of damage and eco friendly management practices for any two lepidopteran and hemipteran pests. 2+2+6=10
 5. Write short notes on the following: 2.5×4=10
 - a) Eco-friendly management of sorghum shootfly.
 - b) Role of trap crops in the management of insect-pests of mustard.
 - c) Why does paddy suffer huge losses from infestation of insect-pests?
 - d) Management of wheat termite.
 6. Answer in brief: 2×5=10
 - a) Difference in the nature and symptoms of damage of acarine pests of jute
 - b) Why earthing up is necessary in cotton insect-pest management
 - c) Mention the cultural practices followed to manage BPH of paddy
 - d) Nature and Symptoms of Damage of Bihar Hairy Caterpillar
 - e) Nature of oviposition of Jute stem Girdler
 7. Write short notes on the following: 2×5=10
 - a) Silver shoot b) Til Hawk Moth c) Knotty fibre of jute d) Pink borer of maize
 - e) Mustard saw fly
 8. Write the IPM practices followed for: 5×2=10
 - a) Paddy b) Oilseed crops
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