

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

Semester -II

Course : AEN - 503

(Taxonomy)

Time : Three Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. What is Systematics and Taxonomy? Write the importance of insect taxonomy in Agriculture and pest management. Classify the class insecta into various orders according to Imms Classification.
2+3+5=10
 2. Briefly describe the salient taxonomic characters of the order Lepidoptera. Explain the family characters of noctuidae and papilionidae.
5+2.5+2.5=10
 3. Enumerate the taxonomic characters of the order coleoptera and Thysanoptera with their habit & habitat.
5+5=10
 4. Write taxonomic characters of the order Hemiptera. Mention the taxonomic characters of the family Acrididae and Tettigonidae.
4+3+3=10
 5. Enumerate the taxonomic characters of the following families with their economic importance
(a) Termitidae (b) Delphacidae (c) Aphididae (d) Curculionidae
2.5×4=10
 6. What is international code of zoological Nomenclature? What is the object of this code? How many articles are there in the code. Define species. What are the characteristics of biological species?
2+2+1+2+3=10
 7. Define the following type species :
(a) Holotype (b) Paratype (c) Lectotype (d) Syntype (e) Allotype
 8. Write short notes on (**any four**) :
2.5×4=10
(a) Coccinellidae
(b) Ichneumonidae
(c) Pseudococcidae
(d) Chrysomelidae
(e) Taxonomic characters
(f) Sternorrhyncha
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