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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc.(Agriculture) (2018 Batch) (Sem.-2)
FUNDAMENTALS OF INSECT MORPHOLOGY AND
SYSTEMATICS

Subject Code : BVAG-203-18

M.Code : 76175

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. Write briefly :

- a) Define Insect and Entomology
- b) What is cranium and tentorium?
- c) What is epicranial suture and where do you find this in grasshopper?
- d) What is NCIPM and where it is located?
- e) What is binomial system of nomenclature?
- f) Differentiate between hibernation and aestivation.
- g) When was Entomological Society of India established and who was its founder' President?
- h) What are key characters?
- i) Tagmosis
- j) Spermatheca

SECTION-B

2. Define Neuron and its structure? How many types of neurons are found in insects?
3. Describe the shape and location of cerci, epiproct and paraproct of an ak grasshopper.
4. Briefly discuss aphidiidae, trichogrammatidae and muscidae families.
5. Discuss wing venation and wing coupling apparatus.
6. Discuss basic parts of insect legs and its modification.

SECTION-C

7. Throw light on distinguishing characteristics of order Lepidoptera and discuss three important families of Lepidoptera.
8. Explain with the help of diagram various mouth parts found in insects and also explain various modifications of mouth parts.
9. Define metamorphosis and its various types? Describe various larval forms of holometabolous insects. Classify pupae of insect in different groups.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.