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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture) (2014 to 2018) (Sem.-3)

FUNDAMENTALS OF INSECT MORPHOLOGY & SYSTEMATICS

Subject Code : BSAG-303

M.Code : 72553

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 student has to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and student has to attempt ANY TWO questions.

SECTION-A**1. Write short notes on :**

- a) Compound eyes in insects
- b) Labrum of Akk grasshopper
- c) Hyphopharynx
- d) Epicranial suture
- e) Spermatheca
- f) Malpighian tubules
- g) Pronotum of an orthoptera
- h) Sub-oesophageal ganglion
- i) Binominal nomenclature
- j) What is full form of ICAR and IARI?

SECTION-B

2. What is alimentary canal and briefly discuss its various parts?
3. Discuss various modifications of insect larvae and pupae.
4. Distinguish characteristics of order Hemiptera.
5. What is wing venation and wing coupling mechanism?
6. Give a brief account of central nervous system of insect.

SECTION-C

7. Discuss with help of a diagram the various appendages of head of Akk grasshopper?
8. Why are insects most dominating species on earth? Discuss with examples.
9. Define Insects integument and its function. How cuticle is formed? What are different proteins found in cuticle? What is chitin and its chemical composition?

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.