

SVKM's NMIMS
SCHOOL OF AGRICULTURAL SCIENCES AND TECHNOLOGY

Programme: B.Sc. Agriculture

Year: I Semester: I

Academic Year: 2019-20

Subject: Fundamentals of Entomology

Date: 18 December 2019

Marks: 50

Time: 11.00 am - 1.00 pm

Durations: 2 (Hrs)

No. of Pages: 02

Final Examination

Instructions: Sketches should be neat and labelling compulsory

I Fill in the blanks **10×1 = [10]**

- 1 Beetles are belonging to _____ order
- 2 Who is the author of *Systema Naturae*? _____
- 3 _____ is the subphylum of Arthropoda which contain only marine fossils
- 4 Expansion of ICZN is _____
- 5 Sub – Species is included in _____ type of nomenclature
- 6 Fore gut and hind gut are _____ in origin
- 7 Grasshopper insect head is _____ type
- 8 When the heart rests in the expanded condition this condition is called _____
- 9 The portion of the ovariole which contains the developing eggs is known _____
- 10 Scape is a part of _____

II Attempt any five questions **5×2 = [10]**

- 11 Gynandromorph
- 12 Viviparity
- 13 Endocrine glands
- 14 Epicuticle
- 15 Chitin
- 16 Unicellular structures in insect integument

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III Attempt any three questions

3×10 = [30]

- 17 History of Entomology in India
 - 18 Describe the detailed insect nervous system
 - 19 List out the Endopterygota insect orders and describe the important characters of them
 - 20 Describe the insect body wall-its structure and function along with neat sketch
 - 21 Give the different types of insect leg modifications and draw a neat sketch of them
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