

This question paper contains 2 printed pages]

Y—145—2019

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Third Year) (Fifth Semester) (Backlog) EXAMINATION

OCTOBER/NOVEMBER, 2019

(CGPA Pattern)

ZOOLOGY

Paper XIII (Applied Zoology)

(Entomology—I)

(Wednesday, 20-11-2019)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B. :—*
- (i) Attempt *all* questions.
 - (ii) *All* questions carry equal marks.
 - (iii) Draw well labelled diagrams wherever necessary.

1. Write notes on any *four* of the following : 8
 - (a) Leg of Insect
 - (b) Setting board
 - (c) Hepatic caecae of cockroach
 - (d) Thorax
 - (e) Beetle
 - (f) Holometabola.
2. Attempt any *two* of the following : 8
 - (a) Explain general characters of class Insecta.
 - (b) Define entomology and give scope of agriculture.
 - (c) Insect killing bottle.
 - (d) Preservation of insects.

P.T.O.

3. Attempt any *two* of the following : 8
- (a) Explain digestive system of cockroach.
 - (b) External morphology of cockroach.
 - (c) Explain male reproductive system of cockroach.
 - (d) Explain nervous system of cockroach.
4. Write notes on any *two* of the following : 8
- (a) Explain salient features of order Thysanura with suitable examples.
 - (b) Explain salient features of order Diptera with suitable examples.
 - (c) Explain salient features of order Odonata with suitable examples.
 - (d) Explain salient features of order Coleoptera with suitable examples.
5. Describe in detail any *one* of the following : 8
- (a) Explain effect of light and food on insect life.
 - (b) Hormonal control of metamorphosis in insect.