

C 21046

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2022

(CCSS)

Applied Zoology

ZOO 4E 23—MEDICAL, VETERINARY AND FORENSIC ENTOMOLOGY

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. Write essays on any *two* of the following :

- 1 Explain the modes of feeding and modifications of mouthparts in medically important insects.
- 2 Enumerate the ecology of forensically important flies.
- 3 What is Myiasis ? Write on different types of myiasis and their treatment.
- 4 Comment on the diagnostic and clinical features and epidemiology of arboviral diseases of humans.

(2 × 15 = 30 marks)

II. Write short essays on any *three* of the following :

- 5 Explain the life cycle stages of forensically important flies.
- 6 Enumerate the biology of tse-tse flies.
- 7 Write the DNA techniques employed to identify forensically important beetles.
- 8 Explain the biology of tabanid flies.
- 9 Comment on the diseases caused by lice to domestic animals.

(3 × 10 = 30 marks)

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FOURTH SEMESTER P.G. DEGREE EXAMINATION, APRIL 2022

(CCSS)

Applied Zoology

ZOO 4E 22—ECOLOGY AND ETHOLOGY OF INSECTS

(2019 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. Write essays on any *two* of the following :

- 1 Write an essay on pheromone mediated communication in parasitoids.
- 2 Explain the factors affecting dispersal behaviour in insects.
- 3 Give an account of mapping, inventorying, and monitoring of insect diversity.
- 4 Describe the plant characteristics that affect enemy- prey interactions.

(2 × 15 = 30 marks)

II. Write short essays on any *three* of the following :

- 5 Describe the types and patterns of insect herbivores.
- 6 Explain the spatial and temporal patterns of insect pollination.
- 7 Explain the different mechanisms of seed dispersal. Mention the advantages.
- 8 Write an account of oviposition strategies in insects.
- 9 Explain the major impediments in insect conservation.

(3 × 10 = 30 marks)

III. Write short notes on any *five* of the following :

- 10 Ethics in insect conservation.
- 11 Invasive insects.
- 12 Trophic cascades.
- 13 Semiochemicals.
- 14 Secondary metabolites.
- 15 Synthetic HIPVs.
- 16 Marking pheromones.
- 17 Intra-guild predation.

(5 × 4 = 20 marks)

III. Write short notes on any *five* of the following :

- 10 Venomous insects.
- 11 Origin of parasitism.
- 12 Plague.
- 13 Vesicating beetles.
- 14 Ecology of dermestid beetles.
- 15 Forensically important sarcophagids.
- 16 Anthrax.
- 17 Warble fly.

(5 × 4 = 20 marks)

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