



K22P 1440

Reg. No. :

Name :

III Semester M.Sc. Degree (CBSS – Reg./Sup./Imp.)
Examination, October 2022
(2019 Admission Onwards)
ZOOLOGY
ZOO3 E01 (B) : General Entomology

Time : 3 Hours

Max. Marks : 60

- Instructions :** 1) Answer **any two** out of four questions. (2×12=24)
2) Answer **any two** out of four questions. (2×8=16)
3) Answer **any four** out of six questions. (4×5=20)

I. Answer **any two** of the following.

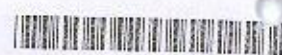
- 1) Write an essay on various communication methods in insects.
- 2) Explain the aspect of social organization with special reference to honeybees.
- 3) Describe the structural organization of mouth parts of insects.
- 4) Describe different methods used by aquatic insects for acquiring oxygen for respiratory function. (2×12=24)

II. Answer **any two** of the following.

- 5) Comment on parasitic Hymenoptera. Add a note on biological control of parasitic Hymenoptera.
- 6) Write an account on Gnathal appendages : type, structure and function.
- 7) Give a detailed account of gall forming insects and formation of galls.
- 8) Discuss the insect plant – interactions. (2×8=16)

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III. Answer **any four** of the following.

- 9) Write notes on Apterygota, Endopterygota, Exopterygota.
- 10) Give an account of leaf mining insects.
- 11) Briefly explain the diagnostic characters and economic importance of Odonates.
- 12) What is stridulation ? Comment on the stimulatory organs in Orthoptera.
- 13) Write notes on *Pediculus humanus* and its adaptation.
- 14) Comment on the adaptations of predatory insects. (4×5=20)