



K20P 0138

Reg. No. :

Name :

**IV Semester M.Sc. Degree (CBSS-Reg./Suppl./Imp.) Examination, April 2020
(2016 Admission Onwards)
ZOOLOGY
ZOO4E02(B) : Insect Physiology**

Time : 3 Hours

Max. Marks : 60

- I. Answer **any two** of the following : **(2×12=24)**
- 1) Explain the structure of alimentary canal in insects and its modification.
 - 2) Write an essay on segmentation, appendage formation and organogenesis.
 - 3) Explain the physiology of mechanoreceptors, chemoreceptors and photo receptors.
 - 4) Explain in detail about the role of hormones in insects with emphasis to molting and metamorphosis.
- II. Answer **any two** of the following : **(2×8=16)**
- 5) Briefly explain the basic components of integument in insects.
 - 6) Discuss the control of ventilation in insects.
 - 7) Explain the physiology of excretion in insects.
 - 8) Discuss in detail the synaptic transmission of impulses in insects.
- III. Answer **any four** of the following : **(4×5=20)**
- 9) Write a short note on plastron respiration.
 - 10) What is the composition of haemolymph ?
 - 11) Discuss the role of fast and slow axons.
 - 12) Write a note on diapause.
 - 13) Discuss the role of corpora allata.
 - 14) What is parthenogenesis ?
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