Total number of printed pages-4-model (iii)

3 (Sem-6/CBCS) ZOO HE 1

2025 Merual

ZOOLOGY

(Honours Elective)

Paper: ZOO-HE-6016

(Biology of Insecta)

Full Marks: 60

Time: Three hours

The figures in the margin indicate full marks for the questions.

n type of antennae. 1. Choose the correct option:

- (i) Termites have
 - Moniliform (a)
 - (b) Filiform
 - (c) Plumose
 - (d) Serrate Costa' is a part of Nagaon
- (ii)
 - (a) Antenna
 - (b) Mouth and asing all M
 - Wing venation (c)
 - Thorax (d)

(iii) Siphoning type of mouthparts are found in

Acc. No.

- (a) Butterfly
- (b) Housefly
- (c) Mosquitoes
- (d) Honey bee
- (iv) The thorax of insects has _____
 - (a) two
 - (b) three
 - (c) four
 - (d) five
- (v) Halteres are found in—
 - (a) Coleoptera
 - (b) Orthoptera
 - (c) Diptera
 - (d) Hemiptera
- (vi) ____ absorbs nitrogenous waste from haemolymph.
 - (a) Haemocytes
 - (b) Oenocytes
 - (c) Malpighian body
 - (d) Rectum

- (vii) Complete metamorphosis is found in-
 - (a) Grasshopper
 - (b) Silverfish
 - (c) Dragonfly
 - (d) Butterfly
- Answer the following question 2×4=8
 - (i) What are the primary parts of the insect mouth?
 - (ii) Distinguish between simple eyes and compound eyes of insects.
 - (iii) What is plastron?
 - (iv) Mention the function of Haemolymph in insects.
- 3. Answer the following questions: (any three) 5×3=15
 - (i) Distinguish between hemimetabolous and holometabolous metamorphosis.
 - (ii) Write about the abdominal structures of insects.
 - (iii) Describe the raptorial type of legs of insects.
 - (iv) What is corpora allata? What hormone does it secrete? Mention its functions.

1+1+3=5

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Contd.

- (v) What are reasons for the fact that insects are a dominant group of animals?
- Answer the following questions: (any three) 4. 10×3=30
 - What are the important characteristics of social organisation in insects? Write about the social behaviour of any one insect.
 - (ii) What do you mean by plant-insect interactions? Describe plant defence mechanisms and adaptation of insects to plant defences. 2+8=10
 - (iii) Describe the following type of mouth parts of insects with labelled diagrams:
 - (a) Biting and chewing type
 - 71-8 (b) Piercing and sucking type 01=2+5 stinguish between hemimetabolous

- (iv) Describe the digestive system of insects.
- (v) What are the different types of sense organs in insects? Describe Mechanoreceptors and Chemoreceptors.
 - (vi) Write the distinctive characters of the orders Coleoptera, Diptera, Lepidoptera and Hymenoptera with comples.

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1+1+3=5