Describe the structure and functions of circulatory system

Roll No.

(a) Nalpighian mbules

Write short notes on the following

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M. Sc. (Fourth Semester) EXAMINATION, 2020

ZOOLOGY

(Group-I)

Paper Third

(Entomology)

Time: Three Hours

Maximum Marks: 80

Note: Attempt all the *five* questions. First question is based on all four Units. All questions carry equal marks.

- 1. Write short notes on the following:
 - (i) Piercing-Sucking Mouthparts
 - (ii) Salivary glands of insects
 - (iii) Humoral immunity
 - (iv) Hemimetabolous metamorphosis
- 2. Describe the various types of heads in insects.

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Write short notes on any two of the following:

- (a) Cuticle
- (b) Types of antennae
- (c) Siphoning mouthpart

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3. Describe the structure and functions of circulatory system of insects.

Or

Write short notes on the following:

- (a) Malpighian tubules
- (b) Haemolymph
- 4. Give a detailed account of various sound producing organs of insects.

Or

Write short notes on the following:

- (a) Physiology of vision in insects
- (b) Endocrine glands in insects
- 5. Write an essay on 'Effects of Pesticides on Central Nervous System'.

Or

convert chands of insects

Feministabolous inetrinophosis
 Describe the various types of heads in insects.

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Write short notes on the following:

- (a) Important pests of 'Soyabean'
- (b) Paurometabolous metamorphosis

Write short notes on any two of the following: $0.008 \Sigma_{
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