REV-01 MSZ/14/19

M.Sc. ZOOLOGY THIRD SEMESTER **ENTOMOLOGY: INSECT PHYSIOLOGY &** ECONOMIC ENTOMOLOGY-II

MSZ-304 D [USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Time: 15 mins.

Objective

Choose the correct answer from the following:

1. Larval characters of insect are maintained by:

a. Moulting hormone c. Juvenile hormone

b. Prothoracicotrophic hormone

d. Bursicon

2. Insect eggs are:

a. Centrolecithal c. Isolecithal

b. Microlecithal d. Alecithal

3. How many segments are present in insect head?

a. Three c. Five

b. Four d. Six

4. All muscles of insects are:

a. Striated

b. Nonstriated

c. Both a & b

d. None of the above

5. Compound eyes produce 'Apposition image' during the time of:

a. Night

b. Bright light

c. Twilight

d. Any time

6. Alary muscles are connected with contraction and expansion of:

a. Spiracle

b. Alimentary canal

c. Heart

d. Trachea

7. Colour of the diapausing eggs are:

a. Black

b. White

c. Brown

d. Colourless

8. In insect, sense of tastes are received by:

a. Olfactory receptor

b. Mechanoreceptor

c. Photoreceptor

d. Gustatory receptor

9. In honey bee, wax glands are present on the:

a. Head

b. Thorax

c. Abdomen

d. Ovipositor

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SET

Full Marks: 35

Marks: 10

1×10=10

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- 10. Mosquito produces sound by:a. •Friction between two body partsc. Vibration of wings
- b. Vibration of tymbalsd. All of the above

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(<u>Descriptive</u>)

Time: 1 hr. 15 mins. Marks: 25

[Answer question no.1 & any two (2) from the rest]

1.	Describe the ultrastructure of skeletal muscles of insect.	5
2.	What is diapause? Describe the role of hormones on diapause.	2+8=10
3.	What is exocrine gland? Write about any two exocrine glands found in insects.	2+4+4=10
4.	Name the groups of insect on the basis of metamorphosis. Write about the endocrine control of metamorphosis.	3+7=10
5.	Write short notes on: (any two) a) Dorsal ocelli b) Pheromones of insect c) Chemoreceptors e) Synchronus & Asynchronus muscles of insect	5×2=10