

Practical No. 6

Aim : To study the characteristics of non-chordate animals a. Earthworm b. Cockroach.

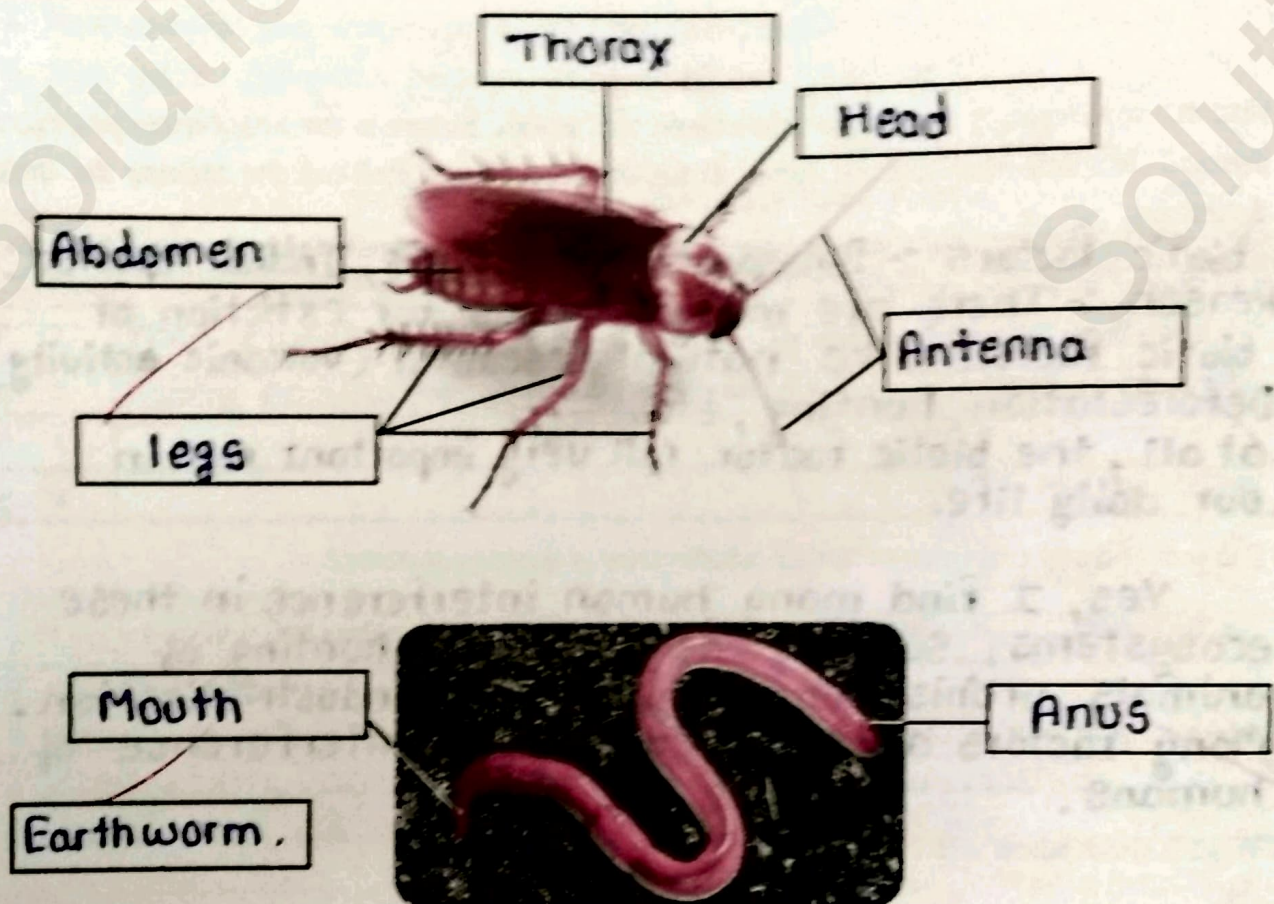
Apparatus : Live or preserved specimens of earthworm and cockroach.

Procedure :

1. Observe the given specimens according to the points given below and study their characteristics :
 - a. A prominent character of its phylum.
 - b. Label the following diagram.

Figure :

Observation :



a. Earthworm

Kingdom	- Animalia
Sub-kingdom	- Non-chordata
Phylum	- Annelida
Example	- Earthworm

Characteristics :

1. Long cylindrical and metamerically segmented body covered with cuticle.
2. Its called 'Friend of farmer' as it dwells the land and makes it loose.

b. Cockroach

Kingdom

Sub-kingdom

Phylum

Class

Example

- Animalia

- Non-chordata

- Arthropoda

- Insecta

- Cockroach

Characteristics :

1. Cockroach is a terrestrial and nocturnal insects.
2. Head, thorax and abdomen are the three main body parts. Cockroach has three pairs of jointed legs and two pairs of wings.

Multiple Choice Questions

1. If non labelled diagram of earthworm is given, then which special character must be shown to include it in a specific phylum?
a. eye ☒ b. metamerical segmentation c. clitellum d. anus
2. Due to which similar characteristic honey bee and cockroach are included in the same phylum?
a. wings b. three pairs of legs ☒ c. jointed appendages d. antenna
3. Which of the following characters are not found in Cockroach?
a. compound eyes b. two pairs of wings
c. no jointed appendages d. three pairs of legs with jointed appendages
4. Heart of cockroach has compartments.
a. 2 b. 3 c. 4 d. 13
5. Earthworm has around segments on its body.
a. 60 to 100 ☒ b. 100 to 120 c. 120 to 140 d. more than 140

: Exercise :

1. Make a list of another animals in the phylum Annelida.

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Leech, Nereis

2. What are the organs of locomotion in Annelids?

.....
They either hermaphrodite or unisexual

3. What is the reproductive speciality of Annelids?

.....
Setae or parapodia or suckers

4. The exoskeleton of Arthropods is made up from which material?

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The exoskeleton of Arthropods is made up of chitinous exoskeleton.



Remark and Signature