DIGESTIVE SYSTEM

1. Digestive system consists of alimentary canal and associated glands.
2. The alimentary canal is straight, starts with mouth and ends with anus.
3. Mouth leads into buccal chamber extending upto the middile of third segment.
4. Pharynx present in 3, 4th segments is divisablc into dorsal salivary chamber and ventral food conducting chamber.
5. Pharynx with the help of radial dilator muscles works as suction pump.
6. Pharyngeal glands or chromophilic cells secrete mucus and proteolytic enzyme.
7. Oesophagus is narrow tubular structure present in 5 to 7 segments.
8. The oval shaped muscular gizzard present in 8th segment is described as grinding mill.
9. Gizzard is internally lined by chitinous cuticle.
10. Stomach present in 9 to 14 segments is guarded by sphincter muscles at the anterior and posterior ends.
11. Glandular cells of stomach secret proteolytic enzyme.
12. Intestine is present between 15th to last segment.
13. Pretyphlosolar region is 15th to 26th.
14. Typhlosolar region is 27th to last 23rd to 25 segments.
15. Post typhlosolar region is the last 23 to 25 segments and is also called rectum.
16. Typhlosole is useful to increase the area of absorption.
17. Typhlosolar region is the longest region of the intestine.
18. The intestinal caecae present in 26th segment secrete amylase which help in carbohydrate digestion.
19. Digestion in earthworm is extra cellular.
20. Earthworm obtains its nourishment from the organic debris (detritus) present in the soil. So it is called a detrivore.
21. Mucin moistened food is bolus.
22. Intestinal wall secretes the enzymes trypsin, amylase, and lipase.

Proteins $\xrightarrow{\text{trypsin}}$ *Peptones* $\xrightarrow{\text{Tfypsin}}$ *Aminoacids*

Carbohydrates $\xrightarrow{\text{Amylase}}$ *Maltose* $\xrightarrow{\text{Maltase}}$ *Glucose*

Lipids $\xrightarrow{\text{lypase}}$ *Fatty acids and Glycerol*

23. Undigested food is sent out through anus as worm castings.