## Structural Organisation EarthWorm. in Animals.. Jock roach. PART-2 trogs...

## Earthworm:

Common Indian Earthworms are pheretima and Lumbuicus.

\* Mouphology -

· Colow: Glistening reddish brown (due to presence of porphyrin).

• 1st Segment: Peristomium (buccal

Segment) which contains the mouth

· Clitellum: (Cincular bands of glandulax tissue): 14-16 segments.

Body is divisible into 3 prominent

regions— 1) pulclitter

2) Cliteller.

3) post Cliteller regions.

\* Digestive System ->

· Digestive system includes buccal cavity (1-3 segments), Oesophagus (5-7 segments), gizard (8-9 segments),

Stomach (9-14 segments). • Intestine (starts from 15 th segment onwards and continues till the last segment).

\* Blood Vascular System-

· Blood Glands → present on 4th, 5th and 6 "segment, produces blood corpuscle and haemoglobin.

\* Excuetory System-

· Both ammotelic and weotelic.

· Nephridia: Excretory organ, also perform osmoregulation. \* Nervous System ->

Anterior part has tactile, chemo, photo and buccal neceptors

\* Reproductive System-

· Hermaphrodète but protandrous.

· Male Reproductive System:

2 pairs of testes (10th and 11th segment). testes sacs, 2 paire of seminal vesicles, Vasa differentia (upto 18 segment),

and accessory glands (in 17th and 19 segment)

Prostate and vasa deferentia opens to

• Female Reproductive System: pair of Ovaries (at the inter-segmental Septum of the 12th and 13th segments),

2 short Oviducts that open outside by female genital pore.

## Cockroach:

of Cockroach.

\* Mouphology

· Body covered by hard chitmous exoskeleton (becown in colows), exoskeleton has hardened plates called sclerites (formed by cuticle).

· A ethprodial memberone (thin and flexible articular membrane) joined sclerites to allow movement of body and appendages.

· Body segmented into 3 regions - Head; Thorax and abdomen.

· Males bear thread-like and styles (absent in females).

\* Digestive System.

· 3 region of alimentary anal foregut, midgut and hindgut.

· Malphigian tubule: Excretory organ, 100-150 yellow colowed thin filamentous tubule present at junction of midgut and hindgut that removes excretory product from haemolymph.

· Hindgut: Ileum, Colon, rectum (with 6 rectal glands) and anus.

\* Circulatory System: ->

opening into harmocoel.

· Haemolymph is composed of colowdess plasma and haemocytes.

\* Respiratory System:

Tracheal tubes cavity oxygen from aix to all parts, subdivided into tracheoles (where exchange of gases takes place through diffusion).

\* Neivous System:

· Consist of central, peripheral and sympathetic system.

· Dorsally located eyes consists of 2000 hexagonal ommatidia to make up mosaic vision of cockroach.

· Other sense Organ: Antermac, maxillary palps, labeal palps, anal cerci etc.

\* Excretory System-

Malphigian tubules (lined by glandular and ciliated cells), fat body, nephrocytes and wicose glands.

MEEL SLAYER \* Reproductive System:-

Male: A pair of testis in 4th 6th abdominal segments, vas deferens that opens from testes to eja culatory duct through seminal vesciles.

External genitulia: Male gonapohy ses

(phallomeres).

· Female: Ovaries in 2nd 6th abdominal Segments, formed of group of ovarian tubules (ovarioles) that contain a chain of developing ova.

· Open type vascular system with vessels · Fertilization and Development: Female produce 9-10 oothecae, each with 14-16 eggs. Paurometabolous development, i.e. through nymphal

Frogs.

most common species of frog in India is Rana tagrina.

\*Morphology:-

· Body is divisible into head and trunk, Streamlined. A neck and tail are absent.

· Sexual dimorphism: male produces Sound vocal sacs during breeding season.

· Male frogs can be distinguished by presence of sound producing vocal sacs and also a copulatory pad on the first digit of the foreinns which is absent in female frogs.

\* Digestive System-

· Digestive glands include liver, panereas, gastuc and intestinal glands.

\* Circulatory System-

· Well developed closed type.

· Includes heart, blood vessels, arterial system, venous system, blood and

lymphatic system.

· 3 chambered heart (2 atria and 1 Ventucle)

• Atria are separated by inter-auricular sy septum. • Special venous connection blw liver and intestine and Kidney and lower parts of the body.

\* Respiratory System-

3 modes: Cutaneous, buccopharynge.
-al, and pulmonary.

\* Nervous System-

· Highly developed and compruses of CNS, PNS and ANS.



· Excretory System: Kidneys (made up of large number of nephrons), through which wreter in female, and wûnogenital duct in male avises.

· Males have Bidder's canal

Females have 20 varies.

· Feutilization is external, and take place inwater.

Tadpole larval stage, undergoes metamorphosis to form the adult.

NEET SLAYER OF GO

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