





Topics to be covered



- FROG Part-02
- 2
- 3
- 4

A Lamphickpress

Neurodial Astrocytes: BFB
Microglial La Phagocytic

FROG:





Morphology:

- 3. Skin has no SCALES, it is MOIST 4 has MUCUS
- 4. Frog never Drinks water through mouth but absorb through & Kin
- 5. Simple eye (single lens), Bulged, Located in orbit of the & Kull.
- 6. Nictitating membrane covertheir eye to brotect it under tho
- 7. Ne ar eye, membranous fold e/a Tymbanum that collects sound Vibration is Bresent

8. Above mouth: 1 pair of external mostrils

®

9. (limbs)

Forelimba

·enda with

· Both Relps in Co WALKING, Burrowing, leafing (Jump) & Swimming

Hindlimba

· enda with 5 digota

More muscular 2 larger Comblared to Forelimb Webbed get

eatenin some ()
Countries.

Bexual dimorphism: It is bresent in Irog as a or can be distinguished from



a g frog

It has sound Broducing Vocal SAC that they use to attract the g during Breeding se a son. · O' has COPULATORY PAD in the first digit of FORELIMB to hold theo during Breeding







Vocal sac'

Cobulatory ba)

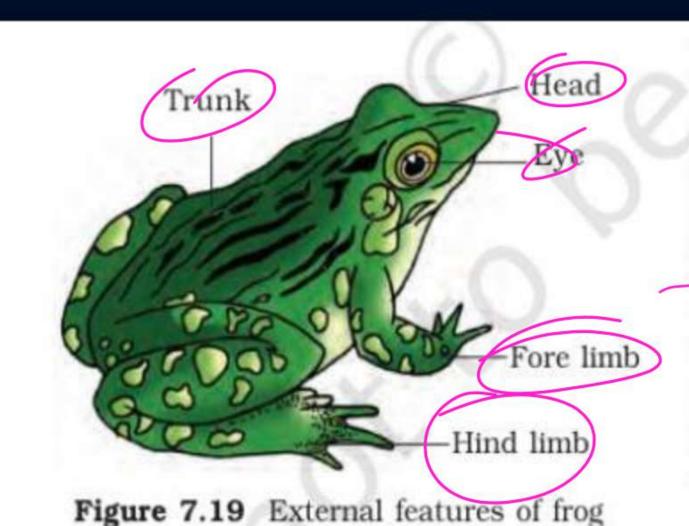


7.5.1 Morphology

Have you ever touched the skin of frog? The skin is smooth and slippery due to the presence of mucus. The skin is always maintained in a moist condition. The colour of dorsal side of body is generally olive green with dark irregular spots. On the ventral side the skin is uniformly pale yellow. The frog never drinks water but absorb it through the skin.

Body of a frog is divisible into head and trunk (Figure 7.19). A neck and tail are absent. Above the mouth, a pair of nostrils is present. Eyes are bulged and covered by a nictitating membrane that protects them





while in water. On either side of eyes a membranous tympanum (ear) receives sound signals. The forelimbs and hind limbs help in swimming, walking, leaping and burrowing. The hind limbs end in five digits and they are larger and muscular than fore limbs that end in four digits. Feet have webbed digits that help in swimming. Frogs exhibit sexual dimorphism. Male frogs can be distinguished by the presence of sound producing vocal sacs and also a copulatory pad on the first digit of the fore limbs which are absent in female frogs.

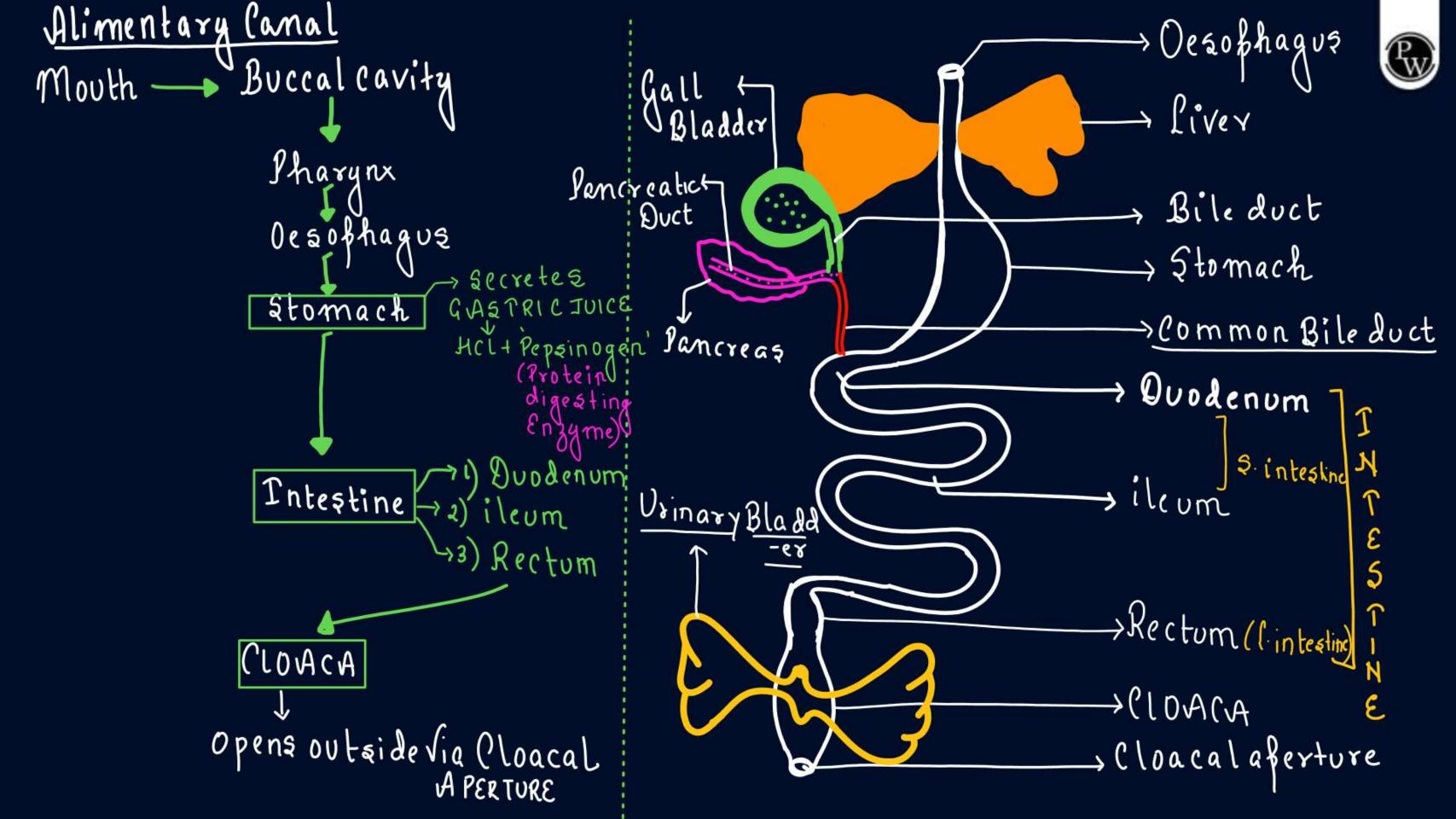
Matomy: In the Body cavity of Troq Various system like Digestive, Respiratory, circulatory et e are present

DIGESTIVE SYSTEM: Alimentary canal + Glands: 2 main glands

(Pathway)

Liver Jancreas

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· liver: Sythesises BILE, GALL BLADDER: Stores BILE



· Gall Bladder: Bile duct
Pancreas : Pancreatic duct] Juse: Common Bile Ouct

Pancreatic juice

Obens into Duodenum

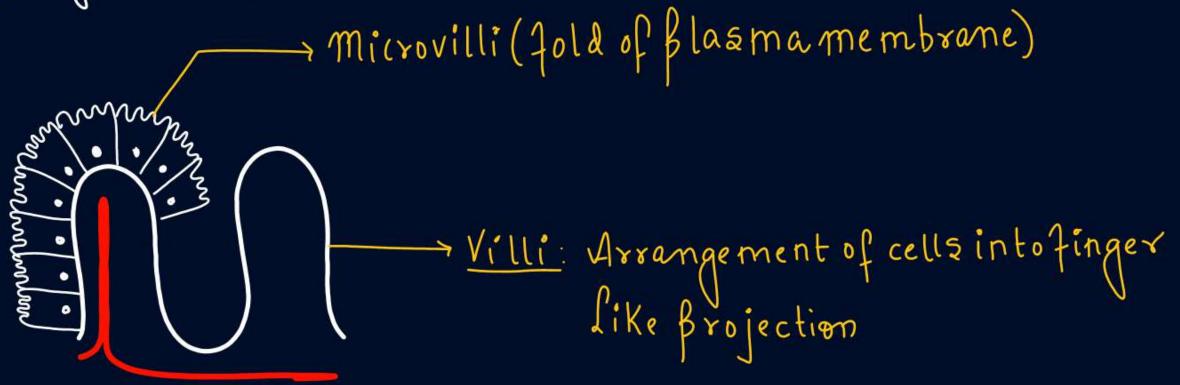
FROG: CARNIVORES (eat insects). Alimentary canal (Intestine) is Short as they have to digest CELLULOSE

· CLOACA: A common chamber for obening of Alimentary canal, reproductive canal & Excretory canal

Reproductive (oviduct)

Mechanism of Digestion: 2 lobes food is captured with the help of BILOBED tongue (Preshensile) Limovement forward-backward DIGESTION) Buccal Cavity Breaking of Complex food (Food + HCI): K a CHYME into simple absorbable > Digestion begins in the stomach form Stomach → Pepsin (active enzyme) Digest Protein Pancreatic enz- 10 6 Dartially Digested food reaches the first - ymez helpsin Bart of Vintertine Ka DUODENUM' TULESTINE Protein & Carbohydrate Digestion >OBILE + PANCREATICIUICE (present here via (Common Bile duct) Final Digestion 54 3 (BILE): Emulsification of fat. takes place in Intestine. · Smallfatdroplet

Absorbtion: Maximum absorbtion occurs in Ileumas it has finger like projections c/a VILLI & MICROVILLI: 1 surface area for absorbtion microvilli (Iold of blasma membrane)

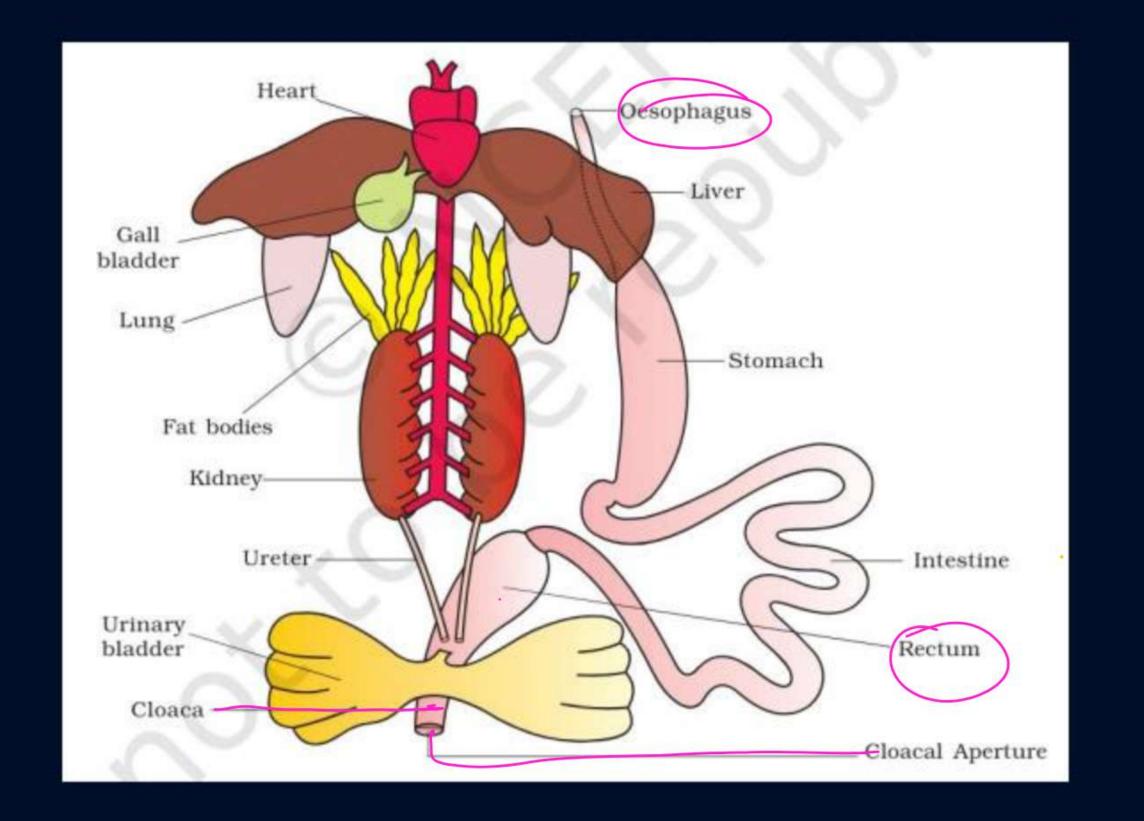


Egestion Undigested & unabsorbed: FAECAL matter removed Via Rectum -> CLOACA (loacal aferture

7.2.2 Anatomy

The body cavity of frogs accommodate different organ systems such as digestive, circulatory, respiratory, nervous, excretory and reproductive systems with well developed structures and functions (Figure 7.2).

The digestive system consists of alimentary canal and digestive glands. The alimentary canal is short because frogs are carnivores and hence the length of intestine is reduced. The mouth opens into the buccal cavity that leads to the oesophagus through pharynx. Oesophagus is a short tube that opens into the stomach which in turn continues as the intestine, rectum and finally opens outside by the cloaca. Liver secretes bile that is stored in the gall bladder. Pancreas, a digestive gland produces pancreatic juice



containing digestive enzymes. Food is captured by the bilobed tongue. Digestion of food takes place by the action of HCl and gastric juices secreted from the walls of the stomach. Partially digested food called chyme is passed from stomach to the first part of the small intestine, the duodenum. The duodenum receives bile from gall bladder and pancreatic juices from the pancreas through a common bile duct. Bile emulsifies fat and pancreatic juices digest carbohydrates and proteins. Final digestion takes place in the intestine. Digested food is absorbed by the numerous finger-like folds in the inner wall of intestine called villi and microvilli. The undigested solid waste moves into the rectum and passes out through cloaca.



- REVISE CLAASNOTES / ZOOLOGY MED EASY

MODULE HW
Module -2
Prarambh exercise 1- 15-18



Mcert catalyst (H.W)

Q-1. READ THE FOLLOWING STATEMENT AND CHOOSE THE CORRECT ANSWER

STATEMENT 1- frog shows sexual dimorphism STATEMENT 2- Above the mouth, a nostril is present

- Statement I is correct but Statement II is incorrect.
- 2 Statement I is incorrect but Statement II is correct.
- Both Statement I and Statement II are correct.
- Both Statement I and Statement II are incorrect.

ASSERTION- frogs have short alimentary canal

REASON – frogs are carnivores

- A) Both Assertion (A) and Reason (R) are true, and Reason (R) is a correct explanation of Assertion (A).
- B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not a correct explanation of Assertion (A).
- C) Assertion (A) is true, and Reason (R) is false.
- D) Assertion (A) is false, and Reason (R) is true.

Q-1. READ THE FOLLOWING STATEMENT AND CHOOSE THE CORRECT ANSWER

STATEMENT 1- The mouth opens into the buccal cavity that leads to the pharynx through oesophagus.

STATEMENT 2- Oesophagus is a short tube that opens into the stomach which in turn continues as the intestine, rectum that opens outside VIA cloaca

- Statement I is correct but Statement II is incorrect.
- 2 Statement I is incorrect but Statement II is correct.
- Both Statement I and Statement II are correct.
- Both Statement I and Statement II are incorrect.

STATEMENT- Frog have the ability to change color to hide from enemy

STATEMENT 2- during peak summer and winter they undergo hibernation and aestivation respectively

- Statement I is correct but Statement II is incorrect.
- 2 Statement I is incorrect but Statement II is correct.
- Both Statement I and Statement II are correct.
- Both Statement I and Statement II are incorrect.

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