S. S. College, Jehanabad

Department: Zoology

Class: M.Sc. Semester IV

Subject: Zoology

Topic: Digestive system and its modification in teleost

Mode of teaching: Google classroom & WhatsApp

Date & Time: 14.09.2020 & 10:30

Teacher: Narendra Sharma

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Digestive system and its modification in teleost

Page - 33 to 45. 30 ren. Digesti system modification -B the tobast Elstion to food & feeding haliet Interduction digestine -91 the estion 01 alsoth egtades Brade 01 Logether 10 the. acces: The GIT modified according to the and feeding hal the neneza re and Histogenesis hastro -Mal intesting main division of GIT Comprises the ocsophagus . th SI mar m line aros intestin the access li igerly nds 101.00 courses

atside the wall of the CIT but spithelial lining. The secretion glands is communicated to entirely ocure ments of the GIT the mucasa inermost epithelial lining and ment 24 20 connective tissue lay rubbocline leyer Jubenucesa The beneath the mucos The muscularis externa consists of an inner circular and the outer longitudinal muscle dayers. It the mucola Surrounds The serosa consists an inner subserosal connede Connective tissue layer & an outer squamous epitheli layer the three germinal layers pa the cipato development of the GIT The ectoder arts of mouth; the palate to lower part of conal. The endoderm gives tiser to gland derived epilheturn & pucosa Subsaros Layer ra mi Epithelium mucos Diagrammatic representation vertical section of the GIT bical histological units-Showing

35 Ligestive system of a fresh hatrachus Expical Crastraintestinal least of a teleast classing batraches example: teleost mouth Eucopharyax perophagus. intesting is subdivided intestine: stomach Audenum , ileum and rectum. The form of paneteas and liver. The two glands are cussociated with the action of the upper part of the intestine. The gall Coladder is located in the liver and associated with the the form of glands are storage of bile The mouth of C. Catrachus is a transverse slit at the front end of the s etse slit at the feort end of the snout opens thind into the Eucopheryngeel cavity. is surrounded by four pairs of plattles and mouth

76 Numerous food used fac AL search 31 me fine soft cante lig be may 0.11 2 harge Se teth tell zas Ferior are. tet geal toeth Crill rafet Feart Fig of C 0 2 1 pairs ac ha and 1 ull towards amellae the out . The gill ternelly ta 21 fairly Sointed Structure long, hard peojecti into the pharyngeal cavity and either in one of two rows on are arranged Cack on ne

Ano 37 She gill the first Auch through rat the end and gill arches aring the aryng esponding hese also C by the fifth gill bon botne teeth rea Inferio sharwa teoth Legugitation of food of Rein nen Ilet. clossed in The maxillary, romerine. Teeth are also not used mad mandilular and used for atushi 29 of food be but simply for fre ape after the frey has been co er part of the bucco-pharyone ing of The membrane mucous lded near the ptonounced ds becoming more gulet is followed by a short, The gullet

tubular cesophagues which is continued leckind crall aladder cocsophy Leges Intestino itudinel folds Stomach Stomach > Pylotus R A) Rectum cana Clarins batarach slimentary Canal (batary folds. the Slomac wider n the middle that than the. ends 24 Sac - life. loofy narrow distal continued isto the re and the Just junction stinet construction a called the is marked by a testine Pylotus the fylorus to the anus, making one of two coils before opening to the caterior. The first part of the intestine is wider representing the rectum. Internally, the mucous membrane length extending from

37 Jana. of the folded longil. The nine ged ig quard 0 Histolag Co. membrane pharyme is of Satis stabilied phithele lettanged in n Malpighie A arge sized cel deepes the Strat large ver cells 10 O. are resent en tegion mucosa the alynd , numetous flask - shaped onucu taste budy are is and Lew are The mucosa is vascular Cons sue filtes. The 2014 of a loyer of sca fibres. In the region scattered longitu the m folds of the mucous prominent membrane

110 the be absent may , cells darge macous teste fibres yle Steatified epittelium sTaile bad -> Camina Ptofilia 1 Micous Cells Circular muscle fibres. T.S. + Cullet of Clarias Bateach In oesophagus, the mucosa deep and in having num cells. The cosa maitudine muscle that lun The oto a layet extremal Covered lamina 1 topte ibres muro etudine fibres cle long mus rel Submucos 9 Secora T.S. of oesophagus of C. Bateachus

100 S Hunson 41 The stomach cous cello I amina Propris · A Part of DES Scular wall Thicker mu The Colemner chilheli ka an is able tu NE glands epitheting chithelium Bresen and loon in Mascular mucose Secola , Columnar chithelium Crasbuc gland Blog 1 Submuco Sa Capillaires Circular muscle fibres clotias bateaches 9.S. Stomach Gir ...

42 musculeris sterent The pater thin exter Submucos tamina Peoprig Crastoric estric mucose, magnifi 91 in 20 marous me folds minen eming vi Juma muscle Affec , Longitudinal > Mucous Ce epittelium Ctopria aming + Submercola Intestine of big 5. Carias rechus

Hunso 11 intestine, the ville numerous and with Histologically compared epitheli K. and m ADACH The muscula ampia -and inner . The Jerosa blood ibres longitudinal muscle of capillaries Circular and longitudinal muscle fibres circular and longitudinal muscle fibres larger number of mucus secreting Cells the intestine: The mucosal folds of the re the intestine: The procesal are short and broad. Digestive glands of clasias batraches: are in the form of Pancreas and the liver The liver is a yellowish, beown glan isting two main lokes that are subdi Consisting two main lo into smaller lobes. one small lobe of each side between live is isolated on the spin and the muscles

44 Lymphocytes Nucleus strict of los A. Submucesa Mucus secreting cell epithelium ummer 1/2. A part of intestinal mucasa gall bladder 0 between the e and the right liver Bile is a short tube opening into time, a little techind t pylorus. creas is a well developed & diffused gland between the lokes counding the bel regel liner A part of it extends over the of the stomach urface alson also. > liver " Crall bladder Bile duct Pancreas Liver and Pancreas of Claries.

Ane The lines larger composed number of polyhe 20 of Cul Scattered a large granules ege number acini secrete ngethan The exectine forces pancieatic juice containing many digestine and the alphe and beta cells of its en part Secrete the glueagon and insuling hormones respectively. These hormones help in carbohydre metabolism for metabolism and it help in the storage of glucose in the form of glycage

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