

## SR. SEC. SCHOOL



An English Medium Co.Ed. School | Science & Commerce

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Subject - Biology

Class- 12

Topic – Excretory system of human

8. The vessel carrying blood in giometal (c) affected at (c) a
(a) effective attended
Very Short Answer Type Questions
1. What is excretion? 43
2. What are called ammonia excreting animals? What are uric acid excreting animals called? Unicotelic  3. What is ultrafilteration?
4 What is ultrafilteration? 41 in hidney nepheron 4 of one of
5. Write the name of the unit of excretion in kidney.
4. What is ultrafilteration?  5. Write the name of the unit of excretion in kidney. Rephasing out of kidney.  6. Name the blood vessel coming out of glomerulus of kidney. Effective a street of pain at the time of passing out urine? Down on's caps we what is called the state of pain at the time of passing out urine? To Bow mon's caps we what is its main function? In Bow mon's caps we
What is called the state of pain at the the whole found? What is its main function? In 6000 West with the state of pain at the the
where is giometatas re-
9. What is Malpighian body? 39 10. Where is Henle's loop found? Between DCT&PCT.  11. What are column of Bertini? 38
11. What are column of Bertini? 38
12 Write main function of kidneys in the body.
13. What is haemodialysis? U.3  What is called the presence of urea in blood? When is called the presence of urea in blood?
What is called the presence of urea in blood?
15. What is glycosuria? 42
Chart Anguar Type Questions
1. Which are excretory organs other than kidneys in human? Describe.
What is Gout disease? 42
Discuss Bright's disease. U2
the filteration and selective todosorpass
4. What is the role of ultrafficeration and selective 5. What do you understand by kidney transplantation? Explain in short.
Long Answer Type Questions
1. Describe excretory system of human with figures. 31) 38 2. Describe the functional anatomy of human uriniferous tubule.
3 Describe the other excitory organs of harman
4. Describe different dieseases related to excretion.  4. Describe different dieseases related to excretion.  6. (a) 7. (b) 8. (c).
nswers—1. (c), 2. (b), 3. (d), 4. (a), 5. (b), 6. (a), 7. (b), 8. (c).

	e
	Excuetory System J Human
*	Ques / Aris &
1.	what is excuetion ?
	To exercte out the nitrogenous waste materials
	To exercte out the nitrogenous waste materials from the body is known as exerction.
2.	Ultrat are collect ammonia excreting anniels?  Ammonatelic animals.
	Ammonatelic animals.
- (	Total an union acid mayoting aminists called 9
6.	What are unic said excreting animals called?
ч-	vokat is ultrapiltocation?
	The process of filteration from the wall of
	the process of filteration from the wall of blood capillaines of geomerulus of excretory and other utilizibal substance is known as
	ultrafiltration.
5.	write the name of the unit of excustion in
	Neprion.
	The state of the s
6.	Name the blood reside coming out of
	Name the blood ressels coming out of glomenulus of kidney.  Efferent outliste.
4.	hence is glanoueles found ? What is its main!

Edomeralus à jound in Bouman's capoule. It's junction ? main junction is " Ultrafication? 8. honat is Malphigian body? The anterior part of each wuniferous tubule is called malphighean body. 9. honore is thenle's loop found? Between OCT and OCT 10. What are column of Bostine ? Some navoice elongations of cortical region are embedded in the order medullary part of kidney. These are catted renal columns of Bertine. II. Wente main function of kidneys in bloods? Excuetion. 12. What is harmodealysis 9 when the kidney stop working, then were in avantity increases in blood. This state is known as wromia. Autificial sienal denice is needed for excreting out wrea and other unde materials. Therefore this percess is known as haemodialysis. 13. What are excuetouy organs cother than Ridneys in human ? Describe 1. Skin - Extra water and some nitrogenous

substances are exceeted out of the body by the sweat glands situated in human skin in the form of perspuration. 2. Lungs - CO: in an excretory substance formed during cellular respiration. It is excreted old of the body by the process of respectation 3. Luier - The hepatic cells are helpful in transforming nitrogenous part of amino acids more than necessary into amoria and amoria into less harmful lirea to teransform it into venire to excrete it out. Bile pigment are also formed by there. 14. World do you understand by kidney transplan tation & Explain in short. When the kidney of a diseased person stops working completely than they may not be treated and kidneys from healthy persons are planted. This kidney teansfor process is known as kidney transplantation. The person giving kidney is known as kidney & donor. Kidney donor should be close evelotive person, but become blood and tissue structure is nearly same of the both relatives. If the kidney of an unknown person is transplanted then the immune system of the diseased may reject the new klotney. Ar such the mere kidney could not work and the patient may die. do jace teles, the immune system le inactivated

1905 4 with some specific medicines. Due to this. probability of acceptance by the diseased non person for transplanted leidney increases more 15. Describe excuetory system of human with Jugues. In human, kidneys are main excretary organs. Bosides kidneys, uscetere, weinasy bladder and winary passage or weather also take part in extretion. · Pent Arten Renel Vien Nadwilla throwing bladeler External structure of kidney: In human, one pair of kidneys are found which are situated at dousal side of abdominal carrity both the sides of verteberal column. The eight kidney is some what anterior to the left kidney. Both the kidneys are attached with the dorsal wall of abdomen by means

of a fold of membranous, then peritoneum. Kidney are formed from the embrional mesodern and these are of the metanepholic type. Human kidney are dark seed and bean of shaped . Each kidney is about 10-11 cm in length, 5-6 cm in width the outer surface of the kidney is convex and the union surface cancare. Pit-like structure on the cancare side, is called Julian Renal Orbery and neure enter kidney from the hillim side. Renal nein , by duct and wreter comes out of the kidney. I cap like endowine gland advicual glands, convers the upper end of the kidney. Uneters: A navvous tube with thick muscular walls comes at from the hilum of kidney is called wreter Its proximal part in kidney is wide and junnel shaped, which is ralled pelvis. Both the wreters, of starting from the peluis open below in winary bladder. The walls of wroters are thick and muscular. These muscles do journed wine, develop peristaltic waves. 3 Williamy bladder & It is a muscular bag like structure in which wine is collected permanently. There are three layers in its walls-External Layer: Serosa of peritoneum, middle instriped muccle layer and internal - mucous layer. Urenary bladder is come shaped of which the appear part is unde and lower part is naverous. The naverous part opens by a

aperture in wrethera. This aperture has a spluncter made of steepped muscles. In male, the wurrary bladder is situated in pont of rectum and in in pemale just above vagina, 700-800 ml whine could be collected in winary bladder. 4. Unethera: A duct somes out from the neck of the winary bloobler , which is called weether with is excreted out through wrethera. In males wrethera is about 15 cm long and passes through the penils. Unine and seman both do pars put though it du jernales, wrethera is about 4 cm long and only wine passes but, through it In males weether is made by there parts -1) Prostatio or weteral part - It is 2.5 cm long which passes twough the prostate gland. Both the vasa deprentia opens in this ii) Membranous part - Inis is the small part Penile part - This is about 15 cm long passage, which opens enternelly on the top of glans a penis as wimogenital aparture passing through corpus sprongiosum of one penus. 16. Expeain the junctional anatomy of Muniforous tubules are the functional and structural units of kidney. There are

10-12 lack of thin long and coiled tubules found in each kidney of human. These tubules are known as renal tubules and nephron Each tubule can be divided in following parts-Malphigian body: The anterior part of each winiforous tubule is called malphigian body. which is formed by two parts a) Bowman's Capsule: This is a cup shaped structure in which the geomerculus is inserted. The wall of Bownen's capsule is their and double layered. The mier layer contains specific type of cells which are called porocytes. It processes of podocytes and the well of blood membrane. In this membrane there are found many micropores, jenestia, due do which the manbrane es more permeable.