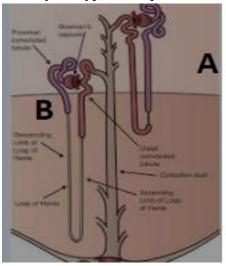
	INDIAN SCHOOL AL WADI AL KABIR			
Class: XI	Department: SCIENCE 2022 – 23 SUBJECT: BIOLOGY		Date of submission: 05.02.2023	
Worksheet: 13 WITH ANSWERS	CHAPTER: EXCRETORY PRODUCTS AND THEIR ELIMINATION		Note: A4 FILE FORMAT	
NAME OF THE STUDENT		CLASS & SEC:	ROLL NO.	
		IULTIPLE CHOICE QUESTIONS		
	fishes eliminate t mmonia	heir nitrogenous waste material in the f (b) Urea	form of:	
(c) U1	ric acid	(d) Both (b) and (c)		
2. Green	glands are			
(a) Ex	cretory organs of	crustaceans		
(b) Ex	cretory organs of	insects		
(c) Di	igestive glands of	crustaceans		
(d) Di	igestive glands of	insects		
3. Colum	ns of Bertini are s	een in		
(a) R	enal medulla			
(b) R	enal cortex			
(c) B	etween medullary	pyramids		
(d) U	Ireters			
4 tubule	results in the ab	sorption of sodium and water reabsorp	tion from distal part of	
(a) .	ADH			
(b)]	Renin			
(c) Aldosterone				
(d) Angiotensin				

- 5. Epithelial cells of Bowman's capsule are known as
 - (a) Podocytes (b) Columns of Bertini
 - (c) JGA

(d) Glomerular cells

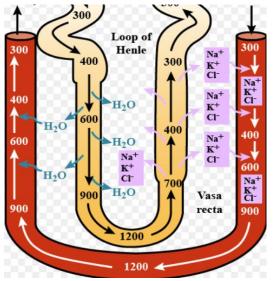
2 MARKS QUESTIONS

- 6. Which is the most toxic nitrogenous product produced in animals?
- 7. From where the pelvis receives urine?
- 8. Name the waste materials which are eliminated through skin
- 9. Expand RAAS.
- 10. Distinguish between ureotelic and uricotelic organisms
- 11. Write about the excretory role of lungs.
- 12. Tabulate the differences between two types of nephrons.
- 13. Give a brief description of hemodialysis and its advantages.
- 14. Give a brief description of juxtaglomerular apparatus
- 15. Identify the types of nephrons marked as 'A' and 'B'

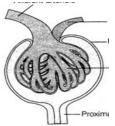


3 MARKS QUESTIONS

- 16. Draw a neat labelled diagram of human excretory system and label any 6 parts.
- 17. How does antidiuretic hormone regulate the functioning of kidney?
- 18. Observe the given diagram



- (a) Identify the mechanism represented in the image
- (b) Explain the importance of this process
- 19. Observe the following figure.



- (a) Name the structure.
- (b) Where can you find this structure in human body?
- (c) Name any four parts shown in the figure.

5 MARKS QUESTIONS

- 20. (a)Define Glomerular Filtration Rate (GFR) and how it affects urine formation?(b)With the help of a neat labelled diagram explain the structure of the basic unit of kidney.
- 21. With the help of schematic representation explain counter current mechanism.
- 22. Explain the major events associated with different parts of renal tubule during urine formation.
- 23. How the functions of kidney are regulated?
- 24. High osmolarity is maintained in medullary region of kidney. Give reasons.
- 25. With the help of a neat labelled diagram explain the structure of human kidney.

	MULTIPLE CHOICE QUESTIONS	
1	Α	1
1	A	1
2	Α	1
3	С	1
4	С	1
5	Α	1
	2 MARKS QUESTIONS	
6	Ammonia, mention its elimination	2
7	Collecting duct which receives from nephrons	
8	Sweat glands – water, urea, lactic acid, salts and Sebaceous gland – wax, sterols etc.	2
9	Renin Angiotensin Aldosterone System – give its importance	
10	Ureotelic – urea is the nitrogenous waste and Uricotelic – uric acid is the nitrogenous waste	
11	Substances eliminated through lungs – carbon dioxide, water	2
12	Differences between cortical and juxta medullary nephrons	2
13	Steps involved in hemodialysis	2
14	Special cellular modification formed at the junction between afferent arteriole and DCT	2
15	A – Cortical and B – Juxtamedullary nephrons	2
	3 MARKS QUESTIONS	
16	19.1, Page no. 291	3
17	Stimulus for release, role of hypothalamus, functions of ADH	3
18	Counter current mechanism, explanation of the process of concentrating filtrate	3
19	(a) Renal corpuscle, (b) Kidney – head portion of nephrons, (c) any four parts	3

HINTS & SOLUTION

	5 MARKS QUESTIONS	
20	(a) Amount of filtrate formed per minute, explanation of hormonal roles, (b) Structure and diagram of nephrons	5
21	Definition, importance and location of counter current mechanism, diagram	5
22	Functions of PCT, Henle's loop, DCT	5
23	Regulation by hypothalamus, JGA and heart	5
24	Important for water and mineral reabsorption, concentrating filtrate and prevents diuresis	5
25	19.2, Page no. 292	5

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