## **Bio Tuition Wala**

Chapters: Excretory Products & Their Establic Biology Total Marks: 80 marks

Neet test series Time:.....

## Section A

Write the answer of the following questions. [Each carries 1 Mark]

[20]

Date:.....

- Filtration of the blood takes place at 1.
  - (A) PCT
- (B) DCT
- (C) Collecting ducts
- (D) Malpighian body
- 2. Different types of excretory structures and animals are given below. Match them appropriately and mark the correct answer from among those given below:

Excretory structure/ organ	Animals
(a) Protonephridia	(i) Prawn
(b) Nephridia	(ii) Cockroach
(c) Malpighian tubules	(iii) Earthworm
(d) Green gland or Antennal gland	(iv) Flatworms

(A) (a - iv), (b - iii), (c - ii), (d - i)

(B) (a - ii), (b - iii), (c - i), (d - iv)

(C) (a - iv), (b - iii), (c - i), (d - ii)

(D) (a - i), (b - iii), (c - ii), (d - iv)

Match the following columns: 3.

Column – I	Column – II	
(a) Proximal convoluted tubule	(i) Formation of concenterated urine	
(b) Distal convoluted tubule	(ii) Filtration of blood	
(c) Henle's loop	(iii) Reabsorption of 70- 80% of electrolytes	
(d) Counter-current mechanism	(iv) Ionic balance	
(e) Renal corpuscle	(v) Maintenance of concentration gradient in medulla.	

- (A) (a iii), (b v), (c iv), (d ii) (e i)
- (B) (a i), (b iii), (c ii), (d v) (e iv)
- (C) (a iii), (b iv), (c i), (d v) (e ii)
- (D) (a iii), (b i), (c iv), (d v) (e ii)
- Dialysing unit (artificial kidney) contains a fluid which is almost same as plasma except that it has 4.
  - (A) High glucose
- (B) High urea
- (C) No urea
- (D) High uric acid
- Which of the following reason is responsible for increase in reabsorption of Na<sup>+</sup> in distal convoluted 5. tubule?
  - (A) Increase in the amount of aldosterone
- (B) Increase in ADH
- (C) Decrease in the amount of aldosterone
- (D) Decrease in ADH
- Of the following option, which classify animals correctly based on removal of excretory waste? 6.

A Ammonotelic		B Ureotelic	C Uricotelic	
(A)	Pigeon, Human	Aquatic, Amphibian, Lizard	Cockroach, Frog	
(B)	Frog, Lizard	Aquatic, Human, Amphibian	Cockroach, Pigeon	
(C)	Aquatic, Amphibians	Frog, Human	Pigeon, Lizard, Cockroach	
(D)	Aquatic, Amphibians	Cockroach, Human	Frog, Pigeon, Lizard	

- Stimulates decrease in GFR. 7.
  - (A) JG cells to release renin

- (B) Adrenal medulla to release aldosterone
- (C) Adrenal medulla to release adrenaline
- (D) Post pituitary to synthesize vasopressin
- 8. Of the following which shows proper function?

	<ul> <li>(A) Henle's loop – Most of the substances reabsorbed from glomerular filtrate.</li> <li>(B) DCT (Distal convoluted tubule) – Reabsorption of ions from the veins or blood from the s roundings.</li> </ul>					
	(C) Efferent arteriole – E	Blood is transported from eve like structure for the f	•			
9.	Which of the following option is correct based on rule of functioning of kidney.  (A) When come in contact with cold atmosphere, ADH secretion is induced.  (B) Increase in blood flow in glomerulus induces synthesis of angiotensin - II.  (C) When body loses H <sub>2</sub> O in summer ADH secretion is inhibited.  (D) When someone drinks more H <sub>2</sub> O, ADH is secreted.					
10.	What is GFR in healthy (A) 250 ml/min	person ? (B) 200 ml/min	(C) 125 ml/min	(D) 100 ml/min		
11.	Which cells release Reni (A) Liver cells	n ? (B) JG cells	(C) Heart cells	(D) Lung cells		
12.	Pick up wrong pair  (A) Nephritis - frequent urination  (B) Renal calculi - severe pair in urinary Bladder  (C) Kidney failure - excretion function completely fails  (D) Uremia - frequent urination					
13.	ADH is secreted by (A) Kidney (C) Posterior lobe of pitt	uitary gland	(B) Anterior lobe of pitu (D) Liver	uitary gland		
14.	Condition in which accu (A) Ureotelism	mulation of urea in bloo (B) Uremia	d takes place. (C) Uricotelism	(D) Urichrome		
15.	Juxta medullary nephron (A) Short loop of Henle	has (B) Long loop of Henle	(C) No PCT	(D) No DCT		
16.						
17.	What is the GFR of a he (A) 150 litres per day	ealthy individual ? (B) 180 litres per day	(C) 200 litres per day	(D) 80 litres per day		
18.	What is the full form of (A) Glomerulus filtering (C) Globulin fast rate		<ul><li>(B) Glomerular filtration</li><li>(D) Globulin filtering rate</li></ul>			
19.	(B) Substances which de (C) Substances which in	crease the urine formation crease the urine formation crease the glucose conter tange the colour of the un	n nt in the urine			
20.	A: Nephritis is the inflaR: Nephritis is usually of	mmation of kidney tissue caused by viral infection.	2.			

