Questionbank Biology

### Unit -V

# Chapter-22. Excretory Products and Their Elimination

#### **IMPORTANT POINTS**

- \* End of metabolic activities in organisms nitrogen waste material like ammonia, urea and ureic acid are produced.
- \* Execretion means the separation and elimination of Waste material from the body.
- \* Organisms are three type on the bases of excretory substances:
  - (i) Ammonotelic
  - (ii) Ureotelic
  - (iii) Urecotelic
- \* In human excretory organ is a pair of kidney, one urinary blandder and urethra.
- \* Kidney are reddish brown color, bean shaped and on either side of the vertebral column in the lumber region. Each kidney is about 10cm long, 5 cm wide and 3 cm thick. In adult, it weight about 125-170 gm
- \* Each human kidney is containing about a million nephrons. Nephrons are referred to as the structural and the function units of the kidney. It known as uriniferous tubules.
- \* Each nephrons is about 3 cm long and 20-30 cm in diameter. Nephron consists of Bowman's capsule, proximal convoluted, henle's loops, distal convoluted and colleting duct.
- \* They comprise structure of glomerules and Brown's capsule is called malpighian corpuscles, where filtration of blood and urine formation is started.
- \* Urine formation involves three phase :
  - (i) Glomerular filtration
  - (ii) Re-absorption and
  - (iii) Tubular secreation.
- \* The function of the kidney is efficiently monitored and regulated hormonal feedback mechanisms involving mainly hypothalamus, pituitary, JGA and heart at cretain extent.
- \* The norrmal urine is pale yellow colored watery fluid which is slightly acidic (pH-6.0)and with a charactedristic odour. On an average 1 to 1.5 liter urineis produced per day, through it 25-30 gm of urea is excreted.
- \* Mammalian skin having sebaceous and sweat glands. Sebaceous gland discharge waxes, sterols, fatty acid and hydrocarbons, It lubricates the and prevents drying up of skin and wetting of hair. While sweet gland scretion is watery and consists of water, salts, mainly Nacl, urea, lactic acid, and little amino acid.

#### Questionbank Biology Corbon dioxide and water are eliminated through human langs. About 18 liter of CO<sub>2</sub> per hour and about 400 ml of water per day are removed by human lungs. By the disorders of excretion uremia, kidney failure, renal calculi and nephritis occurs. **MCQ** (1) Which of the following is a metabolic waste of nitrogenous substances? (a) NH<sub>3</sub>,urea,CO<sub>2</sub> (b) NH<sub>2</sub>, aranine, urea (c) Urea, NH<sub>3</sub>, creatinine (d) Urea, oxugen, SO<sub>2</sub> (2) Excretion of nitrogenous waste produt is remirolid form occure in (a) ureotelic animals (b) Ammorotelic animals (c) ureotelic animals (d) ammiotes In man, the area is mainly produced in (3) (b) Kidneys (c) Gall bladder (d) Spleen (a) Liver Ureotelism is found in (4) (a) Mammals (b) Aquatic insects (c) Tadpoles (d) Birds Which of the following are uricotelic animals? (5) (a) Rohu and Frog (b) Lizard and Crow (c) Camel and Frog (d) Earthworm and eagle (6) If liver from body is removed then which component of blood increases (a) Ammonia (b) Protein (c) urea (d) Uric acid (7) Man is.... (A)Ureotelic (b) Uricotelic (c) Ammonotelic (d) Both b and c (8) Uric acid is formed in human from (a) purines (b) protines (c) glucose (d) pyrimidines (9) Green glands are excretony in function which are found in (a) Spiders (b) Moth (c) Scropions (d) Prawn (10)For maintanance of osmoregulation by animals where urea is sored? (a) Medulla of Kidney (b) Cortex of Kidney (c) Renal of pelvis (d) Renal artery (11)Excretory structure of earthworms is... (a) Malpighian tubules (b) Nephridia (c) Kidney (d) Anternal glands Those animals which excrete a large amount of NH, are... (12)(a) Terretrial (B)Eegg lying (c) Amphibions (d) Aquatic (13)"Columns of Bertini" is the kidney of manimals are found as the extersion of (a) Medulla into cortex (b) Cortex into medulla (c) Medulla into pelvis (d) Pelvis into ureter

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(14)	Each human kidney h	as nearly							
	(a) 10,000 neophrons	S	(b) 50,000 neo	ophrons					
	(c) 1,00,000 neophro	(d) 1 million no	eophrons	S					
	(d) CO <sub>2</sub>								
(15)	ADH influences water	r permbeality in the							
	(a) Regulation of bloo	od pressure	(b) Removal o	f urea					
	(c) Regulation of acid	ity of fluids	(d) secretion of	of antibio	tics				
(16)	Inner living of Bowm	nan's capsule is lined by:							
	(a) Podocytes	(b) Squamous calls	(c) Microvilli		(d) Columnar calls				
(17)	Nitrogenous waste in	the Malpighian tubule flo	ows into						
	(a) PCT	(b) Intestine	(c) Haemocoe	el	(d) DCT				
(18)	Urinary Excretion of	Na is regulated by							
	(a) Anteroir pituitary	(b) Posterior Pituitary	(c) Adrenal co	rtex	(d) Adenal medulla				
(19)	The yellow colour of	urine of the vertebrates i	in due to						
	(a) Cholesterol	(b) Urochrome	(c) Uric acid		(d) Malamin				
(20)	The glomerular filtera	tion rate in a normal adul	t is nearly						
	(a) 200 ml/min	(b) 250 ml/min	(c) 125 ml/mir	1	(d) 170 ml/min				
(21)	Sodium water and ph	osphate reabsorption is n	naximum in						
	(a) Loop of henle	(c) DCT		(d) Collecting tuble					
(22)	What is the approxim	ately length and diameter	of uriniterous tu	ıbule?					
	(A)3 cm length,diame	(A)3 cm length,diameter 35um							
	(B)3 cm length,diameter 20.30um								
	(C)30 cm length,diameter 25um								
	(D)25 cm length,diameter 20um								
(23)	Urea formation occur	e by:							
	(a) Arginine cycle	(b) Krebs cycle(c) Or	nithine cycle	(d) Cit	ulline cycle				
(24)	Ornithine cycle ic four	nd in							
	(a) Kidney	(b) Liver	(c) Spleen		(d) Pencreas				
(25)	Function of loop of H	Ienle is							
	(a) Formation of urine		(b) Passage of	urine					
	(c) Conservation of w	vater	(d) Filtration of	of blood					
(26)	Ascending loop if her	le is perrneable to:							
	(a) K <sup>+</sup>	(b) Cl <sup>-</sup>	(c) Na <sup>+</sup>	(d) All	of above				
(27)	Proboscis gland is bal	anoglossus is associated	with						
	(a) Digestion	(b) Excretion	(c) Circulation	1	(d) Respiration				
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(28)	The appearance of all	bumin in the urine is mos	t likely due to		
	(a) Increase is blood	pressure	(b) Decrease in the l	plood osmotic pressure	
	(c) Damage to the Ma	alpighian corpuscles	(d) Damage to the P	PCT	
(29)	The blood constituent	ts that remain unchanged	in quality after circulat	ing through the kidneys	
	are				
	(a) Urea and glucose	(b) Glucose and prote	eins(C) Urea and prote	ins (d) Urea and uric acid	
(30)	The renal vain carries	bloood			
	(a) Towards liver		(b) Into the kidney		
	(c) Away from the kid	lney	(d) Towards urinary	blodder	
(31)	Animals which canno	t maintain thier osmotic	environment at a consta	ant level are called	
	(a) Osmoregulators	(b) Oamoconfirmers	(c) Pokilotherms	(d) Homeotherms	
(32)	The Organism which	maintain an independent	concentration of their	extracellular fluids	
	(a) Osmoconfirmers	(b) Osmoregulators	(c) a & b both	(d) None of above	
(33)	The mechanism of uri	ne formation in nephorn	involves		
	(a) Ultrafilteration	(b) Secretion	(c) Reabrorption	(d) All of above	
(34)	As compared to effer	ent arterule the afferent a	arteriont of kidney is		
(31)	(a) Shorter and wide	r	(b) Shorter and narr	ower	
	(c) Longer and wider		(d) Longer and narro	ower	
(35)	Diabities incipidus is	due to			
	(a) Hyposecretion of	vasopressin	(b) Hyposecretion o	f insulin	
	(c) Hyposecretion ins	ulin	(d) Hyposecretion vaspresssin		
(36)	Inflammation of joint	s due to accumulation of	furic acid crystals is cal	lled as	
	(a) Gout	(b)Myasthenia gravis			
	(c)Osteoporosis	(d)Osteomalacia			
(37)	Protein rich diet bring	about relatively no chan	ge in one of the followi	ing constituents of urine	
	(A)Urea	(b) Creatinine	(c) Uric acid	(D)Ammonium salts	
(38)	the least toric nitroge	n waste of urine is			
	(a) Ammonia	(b) Allantois	(c) Urea	(d) Uric acid	
(39)	Deamination is proce	ess in which			
	(a) Poisonous urea is	removed from the blood	l and it occures in kidn	ey	
	(b) Amino acid is abs	orbed from the digested	food and it occur in int	estinal	
	(c) Amino acid combi	ned with ammonia to fro	om protein		
	(d) Amino acid broke	en down to release CO,	and NH <sub>2</sub>		

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- (40) Find the incorrect statement regarding mechanism of urine formation in man
  - (a) The glomerular filteration rate is about 125 ml/min
  - (b) Tubular secretion takes place in the PCT
  - (c) Aldostrone induces greater reabsorption of sodium
  - (d) The counter current system contributes in diluting the urine
- (41) Transmination process takes place in
  - (a) Liver

- (b) Kidney
- (c) Heart
- (d) All of above

(42) Structural formula of uric acid is ........

- (43) According to solubility in water
  - (a) NH<sub>3</sub> > uric acid > urea

(b) NH<sub>3</sub> > urea > uric acid

(c) Uric acid> urea > NH<sub>3</sub>

(d) Uric acid  $> NH_3 > urea$ 

- (44) Passage of urine
  - (a) Duct of belini urethra ureters urinarray bladder
  - (b) Urinary bladder urethra urters calyces
  - (c) Duct of ballini calyces urethra urinary bladder
  - (d) Duct of bellini calyces ureters urinary bladder
- (45) How many NH<sub>3</sub> required for a urea...
  - (a) 1

- (b) 2
- (c)3
- (d)4
- (46) Loop of henle and collecting ducts are locketed in kidney is....
  - (a) Cortex
- (b) Medulla pyramid
- (c) Columns of bertini (d) Calyces
- (47) The nature of nitroginious waste and their excretion depend on the large amount of
  - (a)  $C_6 H_{12} O_6$
- (b) NH,CONH,
- $(c) H_2O$
- (d) CO,

- (48) A process takes place in PCT is
  - (a) Absorption of H+ to maintain PH
  - (b) Secretion of buffer HCO<sub>3</sub>
  - (c) Reabsorption of NACL
  - (d) Secretion of urea

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(49)	In cortical nephrones	(LOH = Loop of henle)					
	(a) LOH is long		(b) coloecting tubule is short				
	(c) LOH is sort		(d) Absesnce of	LOH			
(50)	Peritubuler is in						
	(a) Cortex	(b) Deep in medulla	(c) Calyces	(d) Surround to duct of bellini			
(51)	Osmolarity of interstit	ial fluid in cortex is					
	(a) 1200 mosmoiL <sup>-1</sup>	(b) 900 mosmoiL <sup>-1</sup>	(c) 600 mosmoi	L-1 (d) 300 mosmoiL-1			
(52)	Urine produced by hu formed	man kidney is concertrat	al by	times than the initial filtrate			
	(a) 2	(b) 300	(c) 4	(d) 1200			
(53)	Involving mainly in RA	AAS					
	(a) Angiotensin	(b) Aldosteron	(c) Renin	(d) All of these			
(54)	Function of ANF is						
	(a) Increase the blood	l pressure	(b) Decrease the	e blood pressure			
	(c) Diulting the blood		(d) Concentration	g the blood			
(55)	Renin is secreted by						
	(a) PCT	(b) DCT	(c) LOH	(d) JG cells			
(56)	In Amoeba amonia is	excreted by					
	(a) Food vacuole	(b) Coutractile vacuole	e (c) Plasma mem	brance (d) All of these			
(57)	Angitensigngen I is se	creted by					
	(a) Pencreas	(b) JG cells	(c) Liver	(d) Kidney			
(58)	Angitensinogen is con	verted in Angiotensin by					
	(a) dil HCl	(b) casein	(c) Renin	(d) Hippuric acid			
(59)	Secretion of renin from	m JG cell is due to					
	(a) A fall gloerular blo	od flow	(b) glomerular blood pressure				
	(c) GFR		(d) All of these				
(60)	ADH is secerted by						
	(a) Liver	(b) Neurohypophysis	(c) Kidney	(d) JG cells			
(61)	It is also acivate the ac	draral cortex to release a	ldosterone				
	(a) Angiotensin II	(b) Adrenal gland	(c) Cortisol	(d) ADH			
(62)	It is activated us he ch	ange of blood volume an	d volume of body	fluid			
	(a) Medulla oblongata	(b) Osmoreceptor	(c) Aorta	(d) Renal vein			
(63)	It increases excretion	of ca+2 in the kidney					
	(a) Prostaglandin	(b) Renin	(c) Thyrocalcitor	nin (D)Angiotensin			

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(64)	Elimination finsolu	ble calcium phophate take	es place by			
	(a) Kidney	(b) Liver	(c) Lungs	(d) Large intestine		
(65)	The function of reni	nis				
	(a) Degradation of a	angiotensinogen	(b) Stimulation of co	rpus luteum		
	(c) To reduce blood	d pressure	(d) Vasodilation			
(66)	For release of Urine	e				
	(a) Urinary bTrack	contracts	(b) Urinary track rel	axes		
	(c) Ureter relaxes		(d) Ureter contracts			
(67)	Presence of blood i	n urine is known as				
	(a) Glycosuria	(b) Aoligourea	(c) Hemetourea	(d) Kitonurea		
(68)	Presence of excessi	ive ammount urea in bloo	d is known as			
	(a) Uremia	(b) Hemeturia	(c) Diurea	(d) Aniurea		
(69)	Longest loop of her	nle is found in				
	(a) Kangaroorat	(b) Rhesus monkey	(c) Dog	(d) Frog		
(70)	Marine teleost fishe	es excrete				
	(a) Uric acid	(b) Ammonia	(c) Urea	(d) None of these		
(71)	Sebaceous glands d	lischarge				
	(a) Water, salts, Na	Cl, Lactic acid	(b) Water, salts, Nac	Cl, Fatty acid		
	(c) Water, sterols, f	atty acid hydrobarbos	(d) Water, sterols, latic acid, NaCl			
(72)	Sweat gland secreti	on consist of				
	(a) Water, salts, Na	Cl, Lactic acid	(b) Water, salts, Nac	Cl, Fatty acid		
	(c) Water, sterols, f	atty acid hydrobarbos	(d) Water, sterols, la	atic acid, NaCl		
(73)	Kidney are					
	(a) Yellowwish brov	wn (b) Reddish brown	(c) Greenish yellow	(d) Grey in colour		
(74)	kidney in human be	eing occure in the region o	f:			
	(a) 10 <sup>th</sup> thoracic and	d first lumber vertebra	(b) 12th thoracic and second lumber vertebra			
	(c) 11 <sup>th</sup> thoracic and	d third lumber vertebra	(d) $9^{th}$ thoracic and forth lumber vertebra			
(75)	(1) In human being	NH <sub>3</sub> is convert in urea is l	liver			
	(2) Insect birds and	land nail are urecotelic				
	(3) A small amount in doing so.	of water is wasted n excre	etion of anomia howeve	er not much energy is used		
	(4) More energy is to be lost	required in the preparatio	n of urea but not a large	e amount of water is needed		
	(a) TFFF	(b) TFFT	(c) TTFT	(D)TTTF		

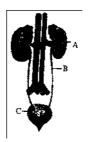
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76)	(1) T	he oute	r surface	of the k	cidney is	s concave while inner	is convex				
ĺ		<ul> <li>(2) The projection of renal pelvis are called collecting duct</li> <li>(3) Renal columns called columns of bertini</li> <li>(4) Afferent renal arterioles are narrower then efferent renal arteriioles</li> </ul>									
	(a) F.			(b) F		(c) FFTT					
77)	` /		he filtera	` /		to nblood plasma	· /				
				• -		to blood plasma					
						-	early imperable to salts				
			_		_	ent to water but near					
	(a) F			(b) F	_	(c) TFTT	•				
	Matc	h the ite	ems of co	olumns I	with th	ose of column II					
78)											
	Colu	mn I				column II					
	(P) U	Jremia -		(i) ex	cee of p	cee of protein level in urine					
	(Q) H	Haematı	ıria`	(ii) P	resence	resence of high Ketone bodies in urine					
	(R) K	Ketonuri	ia	(iii) I	Presence	resence of blood cells in urine					
	(S) G	lucosur	ria	(iv) p	resence	resence of glucose in urine					
	(T) p	roteinur	ia	(v) p	resence	resence of urea in blood					
		P	Q	R	$\mathbf{S}$	T					
	(a)	v	iii	iv	ü	i					
	(b)	V	iii	ïi	i	iv					
	(c)	iv	v	iii	ï	i					
	(d)	V	iii	ïi	iv	i					
9)											
	Colu	mn I			column II						
	(P) U	Itrafilte	ration		(i) H	(i) Henle's loop					
	(Q) c	oncentr	atyion o	f urine	(ii) U	Jreter					
	(R) tı	ransport	t of urine	;	(iii) u	(iii) urinary bladder					
	(S) st	torage o	of urine		(iv) I	(iv) Malipigian corpuscles					
					(v) F	(v) Proxmal convoluid tabule					
		P	Q	R	$\mathbf{S}$						
	(a)	V	ï	iii	iv						
	(b)	iv	i	iii	ï						
	(c)	iv	i	ï	iii						
	(d)	i	ï	iii	iv						

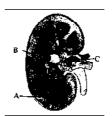
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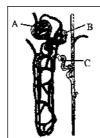
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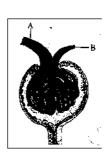
Colu	mn I			column II		
(P) E	xcretor	y oragar	(i) Hydra			
(Q) N	Vephirid	lia	(ii) Leech			
(R) M	<b>1</b> alpighi	an tuble	(iii) Shark			
(S) K	idneys			(iv) Lound warms		
				(v) cockroach		
	P	Q	R	S		
(a)	ii	V	iii	iv		
(b)	ii	V	iv	iii		
(c)	ii	iv	v	iii		
(d)	ï	i	iii	iv		

- (81) In given figure represent A.B.C. respectively
  - (a) Kidney, ureter, urinary bladder
  - (b) Adrinal gland, urinary blader, urethra
  - (c) Urinary bladder, kidney, ureter
  - (d) Bloodvessel, kidney, urinarry bladder
- (82) In given figure represent A.B.C. respectively
  - (a) Cortex, pelvis, ureter
  - (b) Cortex, columnof bertiny, renel pelvis
  - (c) Cortex, renal pelvis, renalvein
  - (d) Cortex, renal pyramid, renal pelvis
- (83) In given figure represent A.B.C. respectively
  - (a) Malpighianbody, DCT, PCT
  - (b) Glomerulus, PCT, DCT
  - (c) Glomerulus, loop of henle, DCT
  - (d) Glomerulus, loop of henle, PCT
- (84) In given figure represent A.B.C. respectively
  - (a) Afferent venual Efferent venual
  - (b) Efferent venual Afferent venual
  - (c) Afferent arterrole Efferent venual
  - (D) Afferent arterrole Efferent arterrole





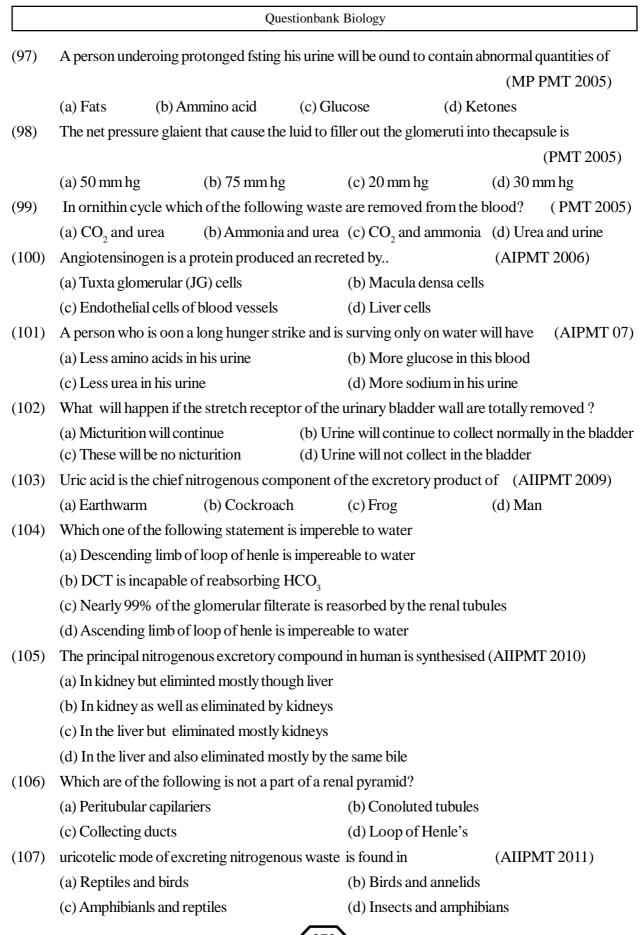


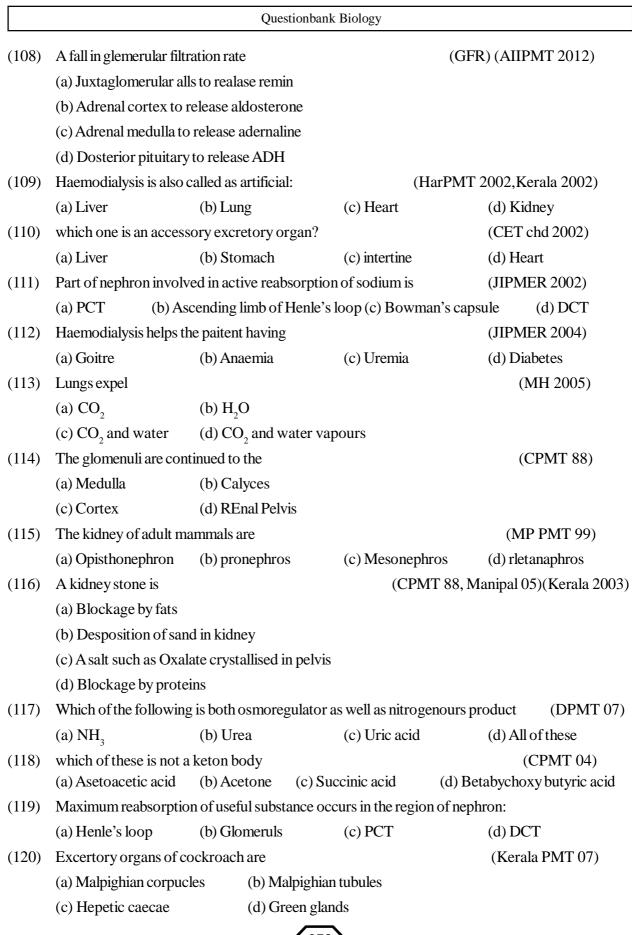


### Questionbank Biology

### Question based on various competitive Examination:-

(85)	Main function of urinit	ferous tubules		( MP PMT 1990)					
	(a) Concentration of urine								
	(b) Passage of urine								
	(c) Reabsorption of us	seful substances from glo	omerular filtrate						
	(d) Removal of urea a	and other waste from blo	od						
(86)	The mechnism of urine	e foundation nephrone in	volves	(CPMT 1992)					
	(a) Utrafication	(b) Secretion							
	(c) Reabsorption	(d) All of above							
(87)	Which hormone indu	ced the process of reabso	orption from glomer	ouous? (JKCMME 92)					
	(a) Oxytosin	(b) Vasopression	(c) Relkgin	(d) Calsitonin					
(88)	Glucose is reabsorbed	l from glomerular filterate	e though	(CBSE 1993)					
	(a) Active transport	(b) Passive transport	(c) Osmosis	(d) Difusion					
(89)	Excretory product of	birds and raptiles is		(CPMT 1998)					
	(a) Urea	(b) Uric acid	(c) Ammonia	(d) Creatinin					
(90)	Part not belonging to	urinferous tubule is		(CBSE 1994)					
	(a) Glomerules		(b) Henle's loop						
	(c) Distal convoluted	tuble	(d) Connecting tub	pule					
(91)	the two kidneys lie:	(MP PMT 1995)							
	(a) At the level of ovaries								
	(b) At the same level								
	(c) Left kidney at a higher level than the ight one								
	(d) Right kidney at a h	nigher level than the left o	one						
(92)	Which blood vessel to	akes blood away from ki	dney?	(DPMT 1996)					
	(a) Renal portal vein	(b) Renal vein (c) Aff	erent arteiote	(d) Efferent artribute					
(93)	Which hormone influe	ence the activity of kidney	y?	(BHV 1996)					
	(a) Vasopression	(b) Thyoxine (c) Va	sopression & aldoste	erone(d) Gonadotrophin					
(94)	NA <sup>+</sup> and Cl <sup>-</sup> are absorbed in kidney in the region of								
	(a) Ascending limb of	henel's loop	(b) decending limb of henel's loop						
	(c) DCT		(d) PCT						
(95)	Blood which leaves li	ver and pases towardds	heart has higher con	centrattion of (BHU 1999)					
	(a) Bile	(b) Oxygen	(c) RBC <sub>s</sub>	(d) Urea					
(96)	Urea is transformed th	nrough		(AIIMS 2000)					
	(a) RBC <sub>s</sub>	(b) WBC <sub>s</sub>	(c) blood plasma	(d) All of above					





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(121)	Consider the following	statement:							
	A. Flame cElls are excretory structures of flat worms								
	B. Green glands are ex	cetory organs of anneli	ds						
	C. Columns of Bertini are conial propertions of renal pelvis into renal medulla between the renal								
	pyramids								
	(a) A and B correct	(b) B and C incorrect							
	(c) A and C incorrect	(d) B and C correct							
(122)	Juxta glomerular cells	of renal cortex synthesiz	e a hormone called:	(BHV 2007)					
	(a) ADH	(b) Oxytocin	(c) Renin	(d) Urochrom					
(123)	RAAS secretes which	of the following hormon	nes?						
	(a) Mineralocorticoids	(b) glucoticoids							
	(c) Both A and B	(d) None of these							
(124)	Which blood vessel ca	arries least ammount of	urea?	(HAR PMT 2005)					
	(a) Pulmonary vein	(b) Renal artery(c) Re	enal vein (d) Hepatic po	ortal vein					
(125)	Kidney stone are		(	(Kerala PMT 2003)					
	(a) Crystals of sillica	(b) crystals of Nacl	(c) Cystals of Oxalate	(d) Crystals of Nahco <sub>3</sub>					
•	Assertion & reason Read the assertion and reason carefully to mark the correct option out o								
	the option given bellow								
	(a) If both the 'A' and 'R' true and 'R' is a correct explaination of 'A'								
	(b) If both the 'A' and 'R' true and 'R' isnot a correct explaination of 'A'								
	(C)If A is true the R is false								
	(D)If A is false the R is true								
(126)	A: Ammonia should be eliminated from the body as rapidly as it s formed.								
	R: Ammonia is insoluble in water.								
	(a)	(b)	(c)	(d)					
(127)	A: Aquatic mammals l	ie whates and seals are s	said to be urcotetic anima	als.					
	R: It is because of the fact that their main nitrogenous waste product is urea.								
	(a)	(b)	(c)	(d)					
(128)			urine is hypertonic while	in ascending limb of loop					
	of henle the urine is hyp	potenic.							
	R: Descending Limb is	s imperable to Na+ whil	e ascending limb is impe	rable to $H_2O$ .					
	(a)	(b)	(c)	(d)					
(129)	A: The antidiuretic hor	rmone increses the water	r permeability of distal co	onvoluted tubule.					
	R: In absesuce of ADI	H water reabsorption is	considerably reduced.						
	(a)	(b)	(c)	(d)					

		Que	estionbank Biology						
(130)	A: Urea is a	A: Urea is a less toxic excretory substance comparatively to uric acid.							
	R: Birds and	R: Birds and insect are uricetolic animals.							
	(a)	(b)	(c)	(d)					
(131)	A: Mammals	s living in deserts contain	more concentrated uring	2.					
	R: They con	tain very long loop of Her	nle in their nephrons.						
	(a)	(b)	(c)	(d)					
(132)	A: Most exc	retory substance are in so	luble in water in human						
	R: Water itse	R: Water itself considered a waste product.							
	(a)	(b)	(c)	(d)					
(133)	A: Durring p	hysiology of excretion de	amination take place in	liver.					
	R: The proce	R: The process of excretion of ammonia is called ammonotelism.							
	(a)	(b)	(c)	(d)					
(134)		A: Utilization of water and consumption of energy for elimination of waste product are inversely proportional.							
	R: Ammonia	R: Ammonia is the less toxic and can be eliminated with large ammount of water.							
	(a)	(b)	(c)	(d)					
(135)	A: Left Kidn	ey is situated slight lower	than right kidney.						
	R: The right	side of the andominal cali	ty is occupied by liver.						
	(a)	(b)	(c)	(d)					

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Questionbank Biology

### ANSWER KEY

1	c	26	d	51	d	76	a	101	c	126	c	
2	c	27	b	52	c	77	d	102	d	127	a	
3	a	28	c	53	d	78	d	103	b	128	a	
4	a	29	b	54	b	79	c	104	c	129	b	
5	b	30	c	55	d	80	b	105	c	130	d	
6	a	31	b	56	b	81	a	106	b	131	a	
7	b	32	b	57	c	82	b	107	a	132	c	
8	a	33	d	58	c	83	b	108	a	133	b	
9	d	34	a	59	d	84	d	109	d	134	c	
10	a	35	a	60	b	85	a	110	a	135	d	
11	b	36	c	61	a	86	d	111	b			
12	d	37	d	62	b	87	b	112	c			
13	b	38	d	63	c	88	a	113	d			
14	d	39	d	64	d	89	b	114	c			
15	b	40	d	65	a	90	d	115	d			
16	d	41	a	66	b	91	c	116	c			
17	b	42	a	67	c	92	b	117	b			
18	c	43	b	68	a	93	c	118	c			
19	b	44	d	69	a	94	a	119	c			
20	c	45	b	70	d	95	d	120	b			
21	b	46	b	71	b	96	c	121	b			
22	b	47	c	72	c	97	d	122	c			
23	c	48	c	73	b	98	c	123	a			
24	b	49	c	74	b	99	c	124	c			
25	c	50	a	75	c	100	d	125	c			

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