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.

262

* Corbon dioxide and water are eliminated through human langs. About 18 liter of CO₂ 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.

MCO

		MCQ	Į.		
(1)	Which of the following	g is a metabolic waste of	nitrogenous substances	?	
	(a) NH ₃ ,urea,CO ₂		(b) NH ₃ , aranine, urea		
	(c) Urea, NH ₃ , creatin	ine	(d) Urea, oxugen, SO	2	
(2)	Excretion of nitrogeno	us waste produt is remir	olid form occure in		
	(a) ureotelic animals		(b) Ammorotelic anima	ls	
	(c) ureotelic animals		(d) ammiotes		
(3)	In man, the area is mainly produced in				
	(a) Liver	(b) Kidneys	(c) Gall bladder	(d) Spleen	
(4)	Ureotelism is found in				
	(a) Mammals	(b) Aquatic insects	(c) Tadpoles	(d) Birds	
(5)	Which of the following are uricotelic animals?				
	(a) Rohu and Frog		(b) Lizard and Crow		
	(c) Camel and Frog		(d) Earthworm and eag	gle	
(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	
(12)	Those animals which e	excrete a large amount o	of NH ₃ are		
	(a) Terretrial	(B)Eegg lying	(c) Amphibions	(d) Aquatic	
(13)	"Columns of Bertini" is	s the kidney of manimals	s are found as the extersion	on of	
	(a) Medulla into cortex	(b) Cortex into medulla	a (c) Medulla into pelvis	(d) Pelvis into ureter	

(14)	Each human kidney has nearly					
	(a) 10,000 neophrons		(b) 50,000 neophrons			
	(c) 1,00,000 neophrons		(d) 1 million ned	ophrons	1	
	(d) CO ₂					
(15)	ADH influences water	permbeality in the				
	(a) Regulation of bloo	d pressure	(b) Removal of	urea		
	(c) Regulation of acidi	ty of fluids	(d) secretion of	antibio	tics	
(16)	Inner living of Bowm	an's capsule is lined by:				
	(a) Podocytes	(b) Squamous calls	(c) Microvilli		(d) Columnar calls	
(17)	Nitrogenous waste in	the Malpighian tubule flo	ws into			
	(a) PCT	(b) Intestine	(c) Haemocoel		(d) DCT	
(18)	Urinary Excretion of 1	Na is regulated by				
	(a) Anteroir pituitary	(b) Posterior Pituitary	(c) Adrenal cor	tex	(d) Adenal medulla	
(19)	The yellow colour of	urine of the vertebrates i	n due to			
	(a) Cholesterol	(b) Urochrome	(c) Uric acid (d		(d) Malamin	
(20)	20) The glomerular filteration rate in a normal adult is nearly					
	(a) 200 ml/min	(b) 250 ml/min	(c) 125 ml/min		(d) 170 ml/min	
(21) Sodium water and phosphate reabsorption is maximum in						
	(a) Loop of henle	(b) PCT	(c) DCT		(d) Collecting tuble	
(22)	What is the approxima	tely length and diameter	of uriniterous tub	oule?		
	(A)3 cm length,diameter 35um					
	(B)3 cm length,diamer	(B)3 cm length,diameter 20.30um				
	(C)30 cm length,diameter 25um					
	(D)25 cm length,diam	eter 20um				
(23)	Urea formation occur	e by:				
	(a) Arginine cycle	(b) Krebs cycle(c) Orr	nithine cycle	(d) Cita	ulline cycle	
(24)	Ornithine cycle ic four	nd in				
	(a) Kidney	(b) Liver	(c) Spleen		(d) Pencreas	
(25)	Function of loop of H	enle is				
	(a) Formation of urine		(b) Passage of urine			
	(c) Conservation of w	ater	(d) Filtration of	blood		
(26)	Ascending loop if hen	le is perrneable to:				
	(a) K ⁺	(b) Cl ⁻	(c) Na ⁺	(d) All	of above	
(27)	Proboscis gland is bala	anoglossus is associated	with			
	(a) Digestion	(b) Excretion	(c) Circulation		(d) Respiration	
		264				

Questionbank Biology	Question	bank	Biol	logy
----------------------	----------	------	------	------

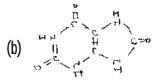
(28)	The appearance of al	bumin in the urine is mos	t likely due to			
	(a) Increase is blood	pressure	(b) Decrease in the b	plood osmotic pressure		
	(c) Damage to the M	alpighian corpuscles	(d) Damage to the P	PCT		
(29)	The blood constituen are	ts that remain unchanged	in quality after circulat	ing through the kidneys		
	(a) Urea and glucose	(b) Glucose and prote	eins(C) Urea and prote	ins (d) Urea and uric acid		
(30)	The renal vain carries	s bloood				
	(a) Towards liver		(b) Into the kidney			
	(c) Away from the ki	dney	(d) Towards urinary	blodder		
(31)	Animals which cannot	Animals which cannot maintain thier osmotic environment at a constant 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 ur	ine formation in nephorn	involves			
	(a) Ultrafilteration	(b) Secretion	(c) Reabrorption	(d) All of above		
(34)	As compared to efferent arterule the afferent arteriont of kidney is					
	(a) Shorter and wide	er	(b) Shorter and narr	ower		
	(c) Longer and wide	r	(d) Longer and narro	ower		
(35)	Diabities incipidus is	due to				
	(a) Hyposecretion of	vasopressin	(b) Hyposecretion of	f insulin		
	(c) Hyposecretion ins	sulin	(d) Hyposecretion v	aspresssin		
(36)	Inflammation of joints due to accumulation of uric acid crystals is called as					
	(a) Gout	(b)Myasthenia gravis				
	(c)Osteoporosis	(d)Osteomalacia				
(37)	Protein rich diet bring	g about relatively no chan	ge in one of the followi	ng constituents of urine		
	(A)Urea	(b) Creatinine	(c) Uric acid	(D)Ammonium salts		
(38)	the least toric nitroge	the least toric nitrogen waste of urine is				
	(a) Ammonia	(b) Allantois	(c) Urea	(d) Uric acid		
(39)	Deamination is proce	cess in which				
	(a) Poisonous urea is	removed from the blood	d 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 comb	ined with ammonia to fro	om protein			
	(d) Amino acid brok	en down to release CO_2	and NH ₂			

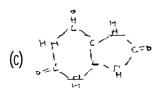
- (40) Find the incorrect statement regarding mechanism of urine formation in man
 - (a) The glomerular filteration rate is about 125 ml/min
 - (b) Tubular secretion takes place in the PCT
 - (c) Aldostrone induces greater reabsorption of sodium
 - (d) The counter current system contributes in diluting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

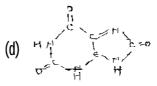
- (b) Kidney
- (c) Heart
- (d) All of above

(42) Structural formula of uric acid is









- (43) According to solubility in water
 - (a) $NH_3 > uric acid > urea$

(b) NH₃ > urea > uric acid

(c) Uric acid> urea > NH₃

(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 NH₂ 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) CO₂

- (48) A process takes place in PCT is
 - (a) Absorption of H+ to maintain PH
 - (b) Secretion of buffer HCO₃
 - (c) Reabsorption of NACL
 - (d) Secretion of urea

		Questionbank	Biology			
(49)	In cortical nephrones	In cortical nephrones (LOH = Loop of henle)				
	(a) LOH is long		(b) coloecting tub	ule is short		
	(c) LOH is sort		(d) Absesnce of L	.OH		
(50)	Peritubuler is in					
	(a) Cortex	(b) Deep in medulla	(c) Calyces (d	l) Surround to duct of bellini		
(51)	Osmolarity of interstit	ial fluid in cortex is				
	(a) 1200 mosmoiL ⁻¹	(b) 900 mosmoiL ⁻¹	(c) 600 mosmoiL	-1 (d) 300 mosmoiL ⁻¹		
(52)	Urine produced by hu formed	man kidney is concertrat	al byti	mes 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 pressure		(b) Decrease the blood pressure			
	(c) Diulting the blood		(d) Concentrating 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 membr	rance (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 f	luid		
	(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) Thyrocalcitonia	n (D)Angiotensin		

(64)	Elimination finsoluble calcium phophate takes place by					
	(a) Kidney	(b) Liver	(c) Lungs	(d) Large intestine		
(65)	The function of re	enin is				
	(a) Degradation of	of angiotensinogen	(b) Stimulation of cor	pus luteum		
	(c) To reduce blo	ood pressure	(d) Vasodilation			
(66)	For release of Ur	ine				
	(a) Urinary bTrac	ck contracts	(b) Urinary track rela	axes		
	(c) Ureter relaxes	S	(d) Ureter contracts			
(67)	Presence of bloo	d in urine is known as				
	(a) Glycosuria	(b) Aoligourea	(c) Hemetourea	(d) Kitonurea		
(68)	Presence of exce	ssive ammount urea in blood	d is known as			
	(a) Uremia	(b) Hemeturia	(c) Diurea	(d) Aniurea		
(69)	Longest loop of h	nenle is found in				
	(a) Kangaroorat	(b) Rhesus monkey	(c) Dog	(d) Frog		
(70)	Marine teleost fis	shes excrete				
	(a) Uric acid	(b) Ammonia	(c) Urea	(d) None of these		
(71)	Sebaceous gland	s discharge				
(11)	(a) Water, salts, NaCl, Lactic acid		(b) Water, salts, NaC	Cl, Fatty acid		
	(c) Water, sterols	s, fatty acid hydrobarbos	(d) Water, sterols, lat	tic acid, NaCl		
(72)	Sweat gland secr	etion consist of				
	(a) Water, salts, I	NaCl, Lactic acid	(b) Water, salts, NaC	Cl, Fatty acid		
	(c) Water, sterols, fatty acid hydrobarbos		(d) Water, sterols, lat	(d) Water, sterols, latic acid, NaCl		
(73)	Kidney are					
	(a) Yellowwish br	rown (b) Reddish brown	(c) Greenish yellow	(d) Grey in colour		
(74)	kidney in human	being occure in the region of	f:			
	(a) 10 th thoracic a	and first lumber vertebra	(b) 12th thoracic and second lumber vertebra			
	(c) 11 th thoracic a	and third lumber vertebra	(d) 9 th thoracic and fo	orth lumber vertebra		
(75)	(1) In human bein	ng NH ₃ is convert in urea is l	iver			
	(2) Insect birds a	nd land nail are urecotelic				
	(3) A small amou in doing so.	nt of water is wasted n excre	etion of anomia however	r not much energy is used		
	(4) More energy to be lost	is required in the preparation	n of urea but not a large	amount of water is needed		
	(a) TFFF	(b) TFFT	(c) TTFT	(D)TTTF		

- (76)(1) The outer surface of the kidney is concave while inner is convex
 - (2) The projection of renal pelvis are called collecting duct
 - (3) Renal columns called columns of bertini
 - (4) Afferent renal arterioles are narrower then efferent renal arteriioles
 - (a) FFTF
- (b) FTTF
- (c) FFTT
- (d) FTFF
- (77)(1) In PCT the filterate is hypertonic to nblood plasma
 - (2) In DCT the filterrte is hypertonic to blood plasma
 - (3) Decending limb of LOH is permecable to water but nearly imperable to salts
 - (4) Ascending limb of LOH is Segment to water but nearly imperable to salts
 - (a) FTFT
- (b) FTTF
- (c) TFTT
- (d) FFTF
- Match the items of columns I with those of column II

(78)

Column I column II

- (P) Uremia
- (i) excee of protein level in urine
- (Q) Haematuria`
- (ii) Presence of high Ketone bodies in urine
- (R) Ketonuria
- (iii) Presence of blood cells in urine
- (S) Glucosuria
- (iv) presence of glucose in urine
- (T) proteinuria
- (v) presence of urea in blood

	P	Q	R	\mathbf{S}	T
(a)	V	iii	iv	ü	i
(b)	V	iii	ï	i	iv
(c)	iv	V	iii	ï	i

111

(d)

(79)

Column I column II

ï

- (P) Ultrafilteration
- (i) Henle's loop

i

- (Q) concentratyion of urine
- (ii) Ureter

iv

- (R) transport of urine
- (iii) urinary bladder
- (S) storage of urine

iv

- (iv) Malipigian corpuscles
- (v) Proxmal convoluid tabule

	P	Q	R	S
(a)	V	ï	iii	iv
(b)	iv	i	iii	ï

ï

iii

i ï (d) i iv

(c)

(80)

(d)

Column I			column II	
(P) I	Excretor	y oragar	ns	(i) Hydra
(Q)	(Q) Nephiridia			(ii) Leech
(R)I	Malpigh	ian tuble	S	(iii) Shark
(S) I	(S) Kidneys			(iv) Lound warms
				(v) cockroach
	P	Q	R	S
(a)	ï	V	iii	iv
(b)	ï	V	iv	iii
(c)	ï	iv	V	iii

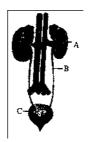
iii

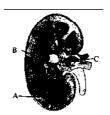
iv

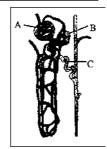
- (81) In given figure represent A.B.C. respectively
 - (a) Kidney, ureter, urinary bladder

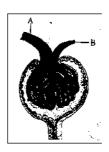
i

- (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









270

	Questi	on based on various co	mpetitive Examinat	ion:-
(85)	Main function of urinif	erous tubules		(MP PMT 1990)
	(a) Concentration of u	rine		
	(b) Passage of urine			
	(c) Reabsorption of us	seful substances from glo	merular filtrate	
	(d) Removal of urea a	nd 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 induc	ced the process of reabso	orption from glomero	uous? (JKCMME 92)
	(a) Oxytosin	(b) Vasopression	(c) Relkgin	(d) Calsitonin
(88)	Glucose is reabsorbed	from glomerular filterate	ethough	(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 u	rinferous tubule is		(CBSE 1994)
	(a) Glomerules		(b) Henle's loop	
	(c) Distal convoluted t	uble	(d) Connecting tubul	le
(91)	the two kidneys lie:			(MP PMT 1995)
	(a) At the level of ovar	ries		
	(b) At the same level			
	(c) Left kidney at a hig	gher level than the ight or	ne	
	(d) Right kidney at a h	igher level than the left o	ne	
(92)	Which blood vessel ta	kes 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	7?	(BHV 1996)
	(a) Vasopression	(b) Thyoxine (c) Vas	sopression & aldoster	one(d) Gonadotrophin
(94)	NA ⁺ and Cl ⁻ are absor	bed in kidney in the regi	on of	
	(a) Ascending limb of	henel's loop	(b) decending limb of	of henel's loop
	(c) DCT		(d) PCT	
(95)	Blood which leaves li	ver and pases towardds l	neart has higher conce	entrattion of (BHU 1999)
	(a) Bile	(b) Oxygen	(c) RBC _s	(d) Urea
(96)	Urea is transformed th	rough		(AIIMS 2000)
	(a) RBC _s	(b) WBC _s	(c) blood plasma	(d) All of above

		Qı	estionbank Biology				
(97)	A person underoing protonged fsting his urine will be ound to contain abnormal quantities of (MP PMT 2005)						
	(a) Fats (b	o) Ammino acid	(c) Glucose	(d) Ketones			
(98)	` '	,	e luid to filler out the glon	, ,			
(, ,	F (5	6	(PMT 2005)			
	(a) 50 mm hg	(b) 75 mm h	g (c) 20 mm hg	, , , , , , , , , , , , , , , , , , ,			
(99)			ving waste are removed f				
` /	(a) CO ₂ and urea			mmonia (d) Urea and urine			
(100)	2	is a protein produc	-	(AIPMT 2006)			
,	(a) Tuxta glomeru		(b) Macula de	· · · · · · · · · · · · · · · · · · ·			
		(c) Endothelial cells of blood vessels (d) Liver cells					
(101)	` ´		trike and is surving only o				
` ,	(a) Less amino ac			ose in this blood			
	(c) Less urea in his urine (d) More sodium in his urine						
(102)	What will happen	n if the stretch rece	otor of the urinary bladde	r wall are totally removed?			
	(a) Micturition wi (c) These will be r		(b) Urine will continue (d) Urine will not colle	e to collect normally in the bladde ect in the bladder			
(103)				product of (AIIPMT 2009)			
, ,	(a) Earthwarm	(b) Cockroa		(d) Man			
(104)	Which one of the	following statemer	at is impereble to water				
	(a) Descending limb of loop of henle is impereable to water						
	(b) DCT is incapable of reabsorbing HCO ₃						
	(c) Nearly 99% of the glomerular filterate is reasorbed by the renal tubules						
	(d) Ascending lim	nb of loop of henle i	s impereable to water				
(105)	The principal nitro	ogenous excretory	compound in human is sy	nthesised (AIIPMT 2010)			
	(a) In kidney but eliminted mostly though liver						
	(b) In kidney as well as eliminated by kidneys						
	(c) In the liver but	(c) In the liver but eliminated mostly kidneys					
	(d) In the liver and	d also eliminated m	ostly by the same bile				
(106)	Which are of the	following is not a p	art of a renal pyramid?				
	(a) Peritubular ca	pilariers	(b) Conoluted	tubules			
	(c) Collecting duc	ets	(d) Loop of H	lenle's			
(107)	uricotelic mode o	f excreting nitroger	nous waste is found in	(AIIPMT 2011)			
	(a) Reptiles and b	oirds	(b) Birds and	annelids			
	(c) Amphibianls a	nd reptiles	(d) Insects and	d amphibians			

(108)	A fall in glemerular filt	ration rate	((GFR) (AI	IPMT 2012)					
	(a) Juxtaglomerular a	lls to realase remin								
	(b) Adrenal cortex to	release aldosterone								
	(c) Adrenal medulla to	o release adernaline								
	(d) Dosterior pituitary	y to release ADH								
(109)	Haemodialysis is also	called as artificial:	(HarPN	AT 2002,	2002,Kerala 2002)					
	(a) Liver	(b) Lung	(c) Heart	(d) K	Kidney					
(110)	which one is an acces	sory excretory organ?		(CE	Γ chd 2002)					
	(a) Liver	(b) Stomach	(c) intertine	(d) H	leart					
(111)	Part of nephron involved	ved in active reabsorpti	on of sodium is	of sodium is (JIPME)						
	(a) PCT (b) As	scending limb of Henle'	's loop (c) Bowman's c	apsule	(d) DCT					
(112)	Haemodialysis helps t	he paitent having		(JIPI	MER 2004)					
	(a) Goitre	(b) Anaemia	(c) Uremia	(d) D	Diabetes					
(113)	Lungs expel				(MH 2005)					
	(a) CO ₂	(b) H_2O								
	(c) CO ₂ and water	(d) CO ₂ and water v	apours							
(114)	The glomenuli are cor	ntinued to the			(CPMT 88)					
	(a) Medulla	(b) Calyces								
	(c) Cortex	(d) REnal Pelvis								
(115)	The kidney of adult m	nammals are		(N	MP PMT 99)					
	(a) Opisthonephron	(b) pronephros	(c) Mesonephros	(d) rl	etanaphros					
(116)	A kidney stone is	(CPMT 88	, Manipal	05)(Kerala 2003)						
	(a) Blockage by fats									
	(b) Desposition of sar	nd in kidney								
	(c) A salt such as Oxalate crystallised in pelvis									
	(d) Blockage by proteins									
(117)	Which of the followin	g is both osmoregulator	r as well as nitrogenour	s product	(DPMT 07)					
	(a) NH ₃	(b) Urea	(c) Uric acid	(d) A	All of these					
(118)	which of these is not a	•	Succinic acid (d)		(CPMT 04)					
	(a) Asetoacetic acid	-	oxy butyric acid							
(119)	-	on of useful substance o	•	-						
	(a) Henle's loop	(b) Glomeruls	(c) PCT	$(d) \Gamma$						
(120)	Excertory organs of c			(Kei	rala PMT 07)					
	(a) Malpighian corpud	cles (b) Malpighi (d) Green gla								
	(c) Hepetic caecae									

		Questionbank	k Biology							
(121)	Consider the following statement:									
` '	A. Flame cElls are excretory structures of flat worms									
	B. Green glands are excetory organs of annelids									
	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									
(122)	Juxta glomerular cells of	(BHV 2007)								
	(a) ADH	(b) Oxytocin	(c) Renin	(d) Urochrom						
(123)	RAAS secretes which of the following hormones?									
	(a) Mineralocorticoids (b) glucoticoids									
	(c) Both A and B									
(124)	Which blood vessel carries least ammount of urea? (HAR PMT 2005)									
	(a) Pulmonary vein	(b) Renal artery(c) Re	nal vein (d) Hepatic p	ortal vein						
(125)	Kidney stone are		(Kerala PMT 2003)							
	(a) Crystals of sillica	(b) crystals of Nacl	(c) Cystals of Oxalate	e (d) Crystals of Nahco ₃						
•	Assertion & reason Read the assertion and reason carefully to mark the correct option out of 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 lie whates and seals are said to be urcotetic animals.									
	R: It is because of the fact that their main nitrogenous waste product is urea.									
	(a)	(b)	(c)	(d)						
(128)	A: In the descending limb of loop of henle the urine is hypertonic while in ascending limb of loop of henle the urine is hypotenic.									
	R: Descending Limb is imperable to Na+ while ascending limb is imperable to H ₂ O.									

R: In absessce of ADH water reabsorption is considerably reduced.

(a) (b) (c) (d)

(129) A: The antidiuretic hormone increses the water permeability of distal convoluted tubule.

(b)

(c)

(a)

(d)

		Que	stionbank Biology						
(130)	A: Urea is a less toxic excretory substance comparatively to uric acid.								
	R: Birds and insect are uricetolic animals.								
	(a)	(b)	(c)	(d)					
(131)	A: Mammals living in deserts contain more concentrated urine.								
	R: They con	R: They contain very long loop of Henle in their nephrons.							
	(a)	(b)	(c)	(d)					
(132)	A: Most excretory substance are in soluble in water in human.								
	R: Water itse	R: Water itself considered a waste product.							
	(a)	(b)	(c)	(d)					
(133)	A: Durring physiology of excretion deamination take place in liver.								
	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 is the less toxic and can be eliminated with large ammount of water.								
	(a)	(b)	(c)	(d)					
(135)	A: Left Kidney is situated slight lower than right kidney.								
	R: The right side of the andominal cality is occupied by liver.								
	(a)	(b)	(c)	(d)					

• • •

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			

•••

INDIAN SCHOOL MUSCAT INDIAN SCHOOL MUSCAT INDIAN SCHOOL MUSCAT

276