SOHSS-AREEKODE

FIRST YEAR HIGHER SECONDARY SECOND TERMINAL EVALUATION- DECEMBER 2019 ZOOLOGY

QN NO.	Scoring key	Score	
1	b)Glycosidic bond	1	
2	c)Residual Volume	1	
3	d)Tricuspid valve	1	
4	Sarcomere	1	
5	Adipose Tissue	1	
6	a) Effect of substrate concentration on enzyme action b) Maximum velocity	1 1	
7	A fall in glomerular blood flow/glomerular blood pressure/GFR can activate the JG cells to release renin which converts angiotensinogen in blood to angiotensin I and further to angiotensin II. Angiotensin II, being a powerful vasoconstrictor, increases the glomerular blood pressure and thereby GFR. Angiotensin II also activates the adrenal cortex to release Aldosterone. Aldosterone causes reabsorption of Na+ and water from the distal parts of the tubule. This also leads to an increase in blood pressure and GFR. Thus JGA plays complex regulatory role in kidney functioning	2	
8	Monocytes, all others are granulocytes	2	
9	Smooth muscle/ Non striated muscle/ Visceral Muscle	1	
	Internal organs-Blood vessel,stomach,,,	1	
10	Nearly 20-25 per cent of CO2 is transported by RBCs .70 per cent is carried as bicarbonate. About 7 per cent of CO2 is carried in a dissolved state through plasma. i)In the form of carbamino- hemoglobin About 20-25 % CO2 is carried by haemoglobin as carbamino-haemoglobin . When pCO2 is high and pO2 is low as in the tissues, more binding of carbon dioxide occurs whereas, when the pCO2 is low and pO2 is high as in the alveoli, dissociation of CO2 from carbamino haemoglobin takes place, i. e., CO2 which is bound to haemoglobin from the tissues is delivered at the alveoli ii. In the form of bicarbonate ions RBCs contain a very high concentration of the enzyme, carbonic anhydrase and minute quantities of the same is present in the plasma too. At the tissue site where partial pressure of CO2 is high due to catabolism, CO2 diffuses into blood (RBCs and plasma) and forms HCO3- and H+,. At the alveolar site where pCO2 is low, the reaction proceeds in the opposite direction leading to the formation of CO2 and H2O	2	
11	Polypeptides Polysacharides Collagen Chitin Glcyogen cellulose	2	
12	a) Atherosclerosis: It is caused by deposits of calcium, fat, cholesterol and fibrous tissues, which makes the lumen of arteries narrower. This increases hypertension. Excess cholesterol and fat also leads to obesity. Abnomal ECG may be due to defective pacemaker/AVN/damage in conductive system of heart b) Regular exercise, consume nutritive food with low cholesterol and fat		
13	a)Tracheal system b)Gills c)Lungs	0.5. 0.5 0.5	
14	d)Skin	0.5 2	
14	a) A-Hepatic Caecae B-Gizzard b) A-secrete digestive juice B-Grinding of food	2	
1.5			
15	a) Haemocoel/SInuses b) Heterodont	2	
16	a) Systole is the contraction of chambers of heart	1	
	a, system is the contraction of chambers of ficult		

Navas cheemadan SOHSS-AREEKODE

	Diastole is the	e relaxation of t	the chambers of th	e heart	_
			a is called ureotelic		1
	The animals th	nat excrete uric	acid is called urico	telics	
17	a) Protein digestion will not complete, because enterokinase activate				
	proenzyme trypsinogen in to trypsin (proteolytic enzymes)				
	b) Intestinal muc	osa		-	1
	_ ′		e trpysinogen into	trynsin	1
18		ctive procrizyiii	e dipysinogen into	стурзін	3
16					
	a) Pulmonary vein				
	b) Pulmonary artery				
	c) Dorsal Aorta				
	d) Venacava/Gre	at veins			
	-	carries oxygena	ated blood from lu	ngs to left atrium of human	
	heart	geneted blood f	from left ventricle t	o hody parts	
	Aurta carries oxy	genated blood i	Tom left ventricle t	to body parts	
19	Α	В	С		3
	Bone	Osteocyte	Support		
	Muscle	Myosin	Contraction		
	1	,			
	Neuron	Axon	Transmission		
20	Neuron	Axon	Transmission		3
20	Neuron a) It provide buo	Axon yancy to the fis	Transmission h		3
20	Neuron a) It provide buo b) It is the locom	Axon yancy to the fis otary organs in	Transmission h ctenophores		3
20	Neuron a) It provide buo b) It is the locom	Axon yancy to the fis otary organs in	Transmission h ctenophores	ter transport/canal system)	3
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20	Neuron a) It provide buo b) It is the locom c) It helps to ent	Áxon yancy to the fis otary organs in er water into th	Transmission h ctenophores e spongocoel ?(Wa	ter transport/canal system)	3
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