ANSWER KEY

Frast... YEAR HIGHER SECONDARY EXAMINATION ... 1903ch.... 2024

SUBJECT: ZOOLOGY

CODE NO: FY 426

VERSION: 3...

30... SCORES

...!.... HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
I		Answer any 3 questions from I to 5. Each cassies I score		
t.		Binomial nomenclature	J	1
2.		Starfish	1	1
3.		Guanglic acid/structural formula	1	1
4.		Sarcomera	,	1
5.		JGA/Junta glomorular apparatus/JGally Kidnog	/ i	1
6.		Polypoptides Polysocchasides Taypsin chirtin Insulin Inulin	1	2
7.		A. Testis b. Kidney c. Uninogonital duct/water d. Uninary bladder	1/2 1/2 1/2	2.

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
8-	a.	AB group can accept blood from possons with AB as well as the other groups of blood		
	Ь	The SAN can generate the maximum number of action potentials and is suspensite for initiating and maintaing the shythmic contractile activity of the heart.	6	2
9.		The engyme molecules are fearer than the substrate molecules and after saturation of these molecules, there are no free engyme molecules to bind with the additional substrate molecule.		2
10	a)	Contraction of auricle and ventricle is called systole and the relaxation of auricle and ventricle is called diastole.	½ ½	
	6)	plagma is a strace coloured viscous fluid present in the blood / plagma contain 90-92 / coater, plagma protein fibringan, small amount of minerals (any one point)	发	2
	,	plasma williant clothing factor/plasma protein called sorum	1/2	
	a.	False	1/2	No.
11.	Ь.	Tacie	1/2	6
	С.	False	*	2
	d.	True	1/2	je i

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
12		The flow of filtrate is the two limbs of Henle's loop is in opposite directions and thus forms a counter current. The flow of blood through the two limbs of vasa recta is also in counter current Pattern. The proximity b/w Henle's loop and vasa recta as well as counter current in them help in monitoring an increase in osmolarity towards the inner medullary interstitum or Relevent answer related to counter current mechanism (2 Points)	2×1	2
13		a) Cartilagenous Joint/Slightly movable b) Fibrous Joint/Immovable/ Sutures c) Pivot Joint/Synovial / freely movable d) Saddle Joint/Synovial / freely movable	2×4	2
14		a) ADH/ Vasopressin b) Hypothyroidism/Thyroxine/T4/T3 Trioblothyronine/Tetra rodothyronine c) Insulin d) Growth hormone/soma to tropin	2×4	2
15		a) Homiotherousous animals b) Metamerisis c) Bioluminisence d) Hermaphrodite/ Monoecious/ Bisexual	2×4	2
16	9	a) Radula - Loligo b) Pinnae - Equas c) Osculum - Sycon d) Hypostome - Hydra	2×4	2
		d) 42h 22h		*

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
17	a b	Radial symmely Coelenterates, cfenophores, Echmo- derms, (Cnidaria)	1 2	3
18		A fall in glomenelar blood flow/ glomenelar blood pressure/GFR can		
-0		activate he JG cells to release remin which converts angiotensinogen in blood in to Angiotensin I and angiotensin I. Angiotensin I being a Powerful vaso constrictor, increases		
		GBP and there by GFR. Angustensin I also activate advenal cortex to release aldosterone. Aldosterone causes reabsorption of Nat and water from the distal parts of hibule.	3	3
20	9)	pressure and GFR. This Complex mechanism is known as Renin-Anguotensin Mechanism Explanation or Flow chart of RAAS Synaptic vesicle b) presynaptic membrane cleff d) Post- Synaptic membrane e) chemical and electrical synapse	ッ - 2x6	3
		a) Tidal volume; volume of air inspire or expired during normal respiration' b) Residual volume: Volume of air remaining in the lungs even after a forcible expiration e) vital capacity: Maximum volume air a person can breath in after a		3

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Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
		forced expiration or inspiration		
	,	orTV+IRV+ERV = VC		
14		R		
		1) Mohammed lo rahmi. T (180h)		
		2) Sheeba Jacob Abeloa Jacob		
		9746104155		
		3) Rekha KK 9447968299 Roll		
	7	4) Jaya Mathew 9495811161 2		
	. 100	5) Uma. M.G 9846782590 Uma 6) Sindu C.R 9447970846 Sindu		
	594	7 Jiji Thomas 9961990919 From		
		8) Mubarak. M 9846261324 D		
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		12) Mani Kandan. M 9447439310 13. RASESH KUMAR. R 8281493163	20	
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