College: S. S. College, Jehanabad

Department: Zoology

Class: M.Sc. Semester I

Subject: Zoology / Assignment

Topic: Animal Physiology, Reproductive Biology &

Biochemistry (Paper – 2)

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Last date of assignment submission: 16.05.2020

Mode of submission: E-mail or WhatsApp or Google Classroom

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Note: Students must submit their detail viz. Name, Class, and College Roll Number during the course of assignment submission. Students can access by going to link https://classroom.google.com/c/MTAyNzU2MzI10Tg4/p/MTAzMDE5MzY20Tky/details or joining Google Classroom with code rasmv3a.





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Name:	Class:		
Class Roll No.:	Total Marks: 40		
Assignment: May 14, 2020	Submission: May 16, 2020		

	ादव्यत झा	न ज्यातिसा जगत						
		GE, JEHANABAD	M.Sc. Zoology	Pap	er - 2 Assignment			
		Internal Assessment		of 40 qu	of students with respect to online classes and estions and a total of 40 marks. Each questio marking.			
1.	Whic	ch is the followi	ng is the best description of homeostasis?					
	A	maintenance o	of body function	B	maintenance of body function at the optimum level at all times			
	(C)	cooperatively	systems working to maintain body optimum level	D	multiple systems working cooperatively to maintain body function within normal limits			
2.	Wha	t is stress?						
	A	•	esponse of the body of ny demand for change.	B	Specific response of the body of organism to any demand for change.			
	С	A reaction of bedeerease in ap	pody that leads to opetite.	D	All of the above			
3.	Straii	n in general is t	the change produced in	respon	se to the			
	\bigcirc	environmenta	l factor	\bigcirc B	population			
	<u>C</u>	stress		D	gravitational force			
4.	Envir	onmental stres	sors includes					
	\bigcirc	temperature		\bigcirc B	oxygen availability			
	<u>C</u>	ionic and osm	otic balance	D	All of the above			
			anges that occur in anim vironmental factors are		d maintained under controlled as			
	A	tolerance		\bigcirc B	resistance			
	<u>C</u>	acclimation		D	None of the above			
6.	Accli	matization is a	compensatory changes	occurir	ng under			
	\bigcirc	normal condit	ions.	\bigcirc B	controlled conditions.			
	\bigcirc	stressful cond	ition.	D	Both (a) & (c)			

7.	Migration of a bird up a mountain under low oxygen and low pressure is called as					
	A	acclimation	B	acclimatization		
	<u>C</u>	tolerance	D	resistance		
8.		e is a thick layer of insulating fat in wha er water, this layer is known as	iles ar	d seals which protects them from		
	\bigcirc	brown fat	\bigcirc B	cuticle		
	<u>C</u>	blubber	D	integument		
9.	The	regional temperature differences within	an an	imal are obtained by		
	A	vasodilation only	B	vasoconstriction only		
	(C)	vasocirculation	D	vasodilation and vasoconstriction		
10.		homeostatic thermostat which facilitate ent in	s the p	process of thermoregulation in man is		
	A	cerebrum	\bigcirc B	thalamus		
	<u>C</u>	hypothalamus	D	medulla		
11.	L. The increased muscle contraction along with the increasing rate of heat production is called					
	\bigcirc	shivering thermogenesis	\bigcirc B	non-shivering thermogenesis		
	<u>C</u>	overlapping hypogenesis	D	underweighted osmogenesis		
12.	2. The animal which uses saliva and urine for cooling is					
	A	lizard	B	cats		
	(C)	bears	D	bats		
13.	Whic	ch statement best defines thermoregula	tion?			
	\bigcirc	Maintenance of body temperature	\bigcirc B	Regulation of fluids		
	<u>C</u>	Balancing blood sugar	D	Controlling oxygen and carbon dioxide levels		
14.	Rece	eptors inside the thermoregulatory centr	e dete	ct blood		
	A	рН	B	oxygen		
	(c)	temperature	D	pressure		

15.	Temperature receptors are found in the brain and also in the				
	A	liver	\bigcirc B	heart	
	<u>C</u>	skin	D	mouth	
16.	Whic	ch process cools the skin during sweating	g?		
	A	Transpiration	\bigcirc B	Respiration	
	<u>C</u>	Condensation	D	Evaporation	
17.	Wha	t is the normal core body temperature fo	or hum	nans?	
	\bigcirc A	36° C	\bigcirc B	37° C	
	<u>C</u>	38° C	D	39° C	
18.	Whic	ch of the following nephridia are not fou	nd in e	earthworm?	
	\bigcirc A	Septal nephridia	\bigcirc B	Macronephric nephridia	
	<u>C</u>	Pharyngeal nephridia	D	Integumentary nephridia	
19.	Sea g	gulls excrete salts from			
	A	nasal chamber	\bigcirc B	liver	
	<u>C</u>	lungs	D	kidneys	
20.	Whic	th of the following hormones is involved d?	in reg	gulating the water-salt balance of the	
	\bigcirc A	Cortisone	\bigcirc B	Aldosterone	
	<u>C</u>	ADH	D	ANH	
21.	Whic	ch of the following leads to the secretion	of al	dosterone from the adrenal cortex?	
	A	Chymotrypsin	\bigcirc B	Trypsin	
	<u>C</u>	Renin	D	None of these	
22.	Whic	ch of the two waste products are remove	ed fron	n the blood in liver by Ornithine cycle?	
	A	Urea and CO ₂	\bigcirc B	Uric acid and ammonia	
	(c)	Ammonia and CO ₂	D	Urea and ammonia	

23.	Which one of following correctly explains the function of a specific part of a human nephron?					
	A	Afferent arteriole: Carries the blood away from the glomerulus towards renal vein	B	Podocytes: Create minute spaces (slit pores) for the filtration of blood into the Bowman's capsule		
	(C)	Henle's loop: Most reabsorption of the major substances from the glomerular filtrate	D	Distal convoluted tubule: Reabsorption of K+ ions into the surrounding blood capillaries		
24.	pyramid?					
	A	Loops of Henle	\bigcirc B	Peritubular capillaries		
	<u>C</u>	Convoluted tubules	D	Collecting ducts		
25.	Volu	me of urine is regulated by				
	A	Aldosterone	\bigcirc B	Aldosterone and testosterone		
	<u>C</u>	ADH	D	Aldosterone and ADH		
26.	6. What is the function of respiratory pigments?					
	A	Help in assimilation	\bigcirc B	Transport of oxygen		
	(c)	Transport of nutrients	D	None of these		
27. What is formerly hemoglobin of invertebrates which is functionally similar yet distinct pigments of vertebrate bloods?				ch is functionally similar yet structurally		
	A	Hemocyanin	\bigcirc B	Erythrocruonin		
	<u>C</u>	Chlorocruonins	D	Hemoglobins		
28.	Whic	ch of the following is true for aerobic res	piratio	on in humans?		
	A	Glucose + water = carbon dioxide + water	B	Glucose + oxygen = Carbon dioxide + water		
	<u>C</u>	lucose = Carbon dioxide + water	D	None of these		
29.	Whic	ch one is respiratory pigment?				
	A	Chlorocruonin	\bigcirc B	Bilirubin		
	(c)	Chlorophyll	D	Carotene		

 Pinnaglobin is a brown coloured blood pigment present in the plasma of the molli Pinna. It contains 						
	A	Iron	B	Copper		
	<u>C</u>	Manganese	D	Vanadium		
31.	The I	Haldane Effect describes the				
	A	effect of oxygen on CO ₂ transport.	B	effect of air effect of environmenta pressure on O_2 transport.		
	<u>C</u>	effect of blood osmolarity on O_2 transport.	D	None of these		
32.	Chlo	ride shift is essential for				
	A	CO ₂ transport	\bigcirc B	O ₂ transport		
	<u>C</u>	N ₂ transport	D	All of these		
33.	The o	cause of sickle cell anemia in human is		_		
	\bigcirc	presence of mutation in hemoglobin.	\bigcirc B	aberrated erythropoiesis		
	(c)	Both of these	D	None of these		
34.	Wha	t type of thalassemia disease is Cooley	anaen	nia?		
	\bigcirc	Alloimmunization	\bigcirc B	Beta-thalassemia		
	(c)	Alpha-thalassemia	D	None of these		
35.	Whic	ch of the following statement is correct a	about	Thalassemia disease?		
	A	Thalassemia is caused by mutations in the DNA of cells that make haemoglobin.	B	The type of thalassemia depends upon the number of mutations in genes.		
	<u>C</u>	In mild thalassemia you may not need treatment.	D	All the above		
36.	Whic	ch of the following is not the symptom o	f Thala	assemia disease?		
	\bigcirc	Slow growth and Weakness	\bigcirc B	Abdominal cramps		
	(c)	Dark Urine	D	Facial bone deformities		

٥,.	me	orimary sex organ is known as		
	A	Regulate blood volume and composition	B	Synthesize glucose
	<u>C</u>	Regulate blood pressure	D	Gonads
38.	The i	ncomplete descent of the testes into the	e scro	tum is called as
	A	cryptorchidism	\bigcirc B	hirsutism
	(C)	hernia	D	None of these
39.	Whic	h of the following produces the male se	x horr	none?
	\triangle			
	\mathcal{O}	Rete testis	(B)	Seminiferous tubule
	(c)	Rete testis Leydig cell	(B)	Seminiferous tubule Scrotum
40.	CO		(D)	Scrotum
40.	Out o	Leydig cell	(D)	Scrotum

Class: Name:

Saturday, May 16, 2020 **Total Marks: 40**

M.Sc. Zoology Paper - 2 Assignment Answer Sheet

This assignment is for evaluation of students with respect to online classes and e-contents. It has a total of 40 questions and a total of 40 marks. Each question



(NAAC Accredited- Grade 'B')

	es 1 mark. There is no minus mo		g.		Department's Internal Assessment
<u>_</u>	1. (A) (B) (C) (D)	<u>_</u>	19. (A) (B) (C) (D)	<u>_</u>	37. (A) (B) (C) (D)
<u>_</u>	2. (A) (B) (C) (D)	<u>_</u>	20. (A) (B) (C) (D)	<u>_</u>	38. (A) (B) (C) (D)
<u>_</u>	3. (A) (B) (C) (D)	<u>_</u>	21. (A) (B) (C) (D)	<u>_</u>	39. (A) (B) (C) (D)
<u>_</u>	4. (A) (B) (C) (D)	<u>_</u>	22. (A) (B) (C) (D)	<u> </u>	40. (A) (B) (C) (D)
<u>_</u>	5. (A) (B) (C) (D)	<u>_</u>	23. (A) (B) (C) (D)		
<u>_</u>	6. (A) (B) (C) (D)	<u>_</u>	24. (A) (B) (C) (D)		
<u>_</u>	7. (A) (B) (C) (D)	<u>_</u>	25. A B C D		
<u>_</u>	8. (A) (B) (C) (D)	<u>_</u>	26. (A) (B) (C) (D)		
<u>_</u>	9. (A) (B) (C) (D)	<u>_</u>	27. (A) (B) (C) (D)		
<u>_</u>	10. (A) (B) (C) (D)	<u>_</u>	28. (A) (B) (C) (D)		
<u>_</u>	11. (A) (B) (C) (D)	<u>_</u>	29. (A) (B) (C) (D)		
<u>_</u>	12. (A) (B) (C) (D)	<u>_</u>	30. (A) (B) (C) (D)		
1	13. (A) (B) (C) (D)	<u>_</u>	31. (A) (B) (C) (D)		
<u>_</u>	14. (A) (B) (C) (D)	<u>_</u>	32. (A) (B) (C) (D)		
<u>_</u>	15. (A) (B) (C) (D)	<u>_</u>	33. (A) (B) (C) (D)		
<u>_</u>	16. (A) (B) (C) (D)	<u>_</u>	34. (A) (B) (C) (D)		
<u>_</u>	17. (A) (B) (C) (D)	<u>_</u>	35. (A) (B) (C) (D)		
<u>_</u>	18. (A) (B) (C) (D)	<u>_</u>	36. (A) (B) (C) (D)		