DATE STD:	E:2024 PRE-QUARTERLY EXAM XII BIO-ZOOLOGY	TIME: 1½ HRS MARKS: 35						
	ose the correct answer	8x1=8						
1.	During unfavorable conditions Amoeba withdraws its pseudopodia and secretes a three-layered,							
	protective, chitinous cyst wall around it and becomes inactive. This phenor	menon is called						
	a) Encystment b) strobilation c) Plasmotomy	d) budding						
2.	The process which the sperm undergoes before penetrating the ovum is							
	a. Spermiation b. Cortical reaction c. Spermiogenesis	d. Capacitation						
3.	Which of the following is correct regarding HIV, hepatitis B, gonorrhoea and trichomoniasis?							
	(a) Gonorrhoea is a STD whereas others are not.							
	(b) Trichomoniasis is a viral disease whereas others are bacterial.							
	(c) HIV is a pathogen whereas others are diseases.							
	(d) Hepatitis B is eradicated completely whereas others are not.							
4.	Klinefelters' syndrome is characterized by a karyotype of							
	a) XYY b) XO c) XXX	d) XXY						
5.	A mRNA molecule is produced by							
	a) Replication b) Transcription c) Duplication	d) Translation						
6.	The age of fossils can be determined by							
	a) electron microscope b) weighing the fossils c) carbon dating	d) analysis of bones						
7.	A 30 year old woman has bleedy diarrhoea for the past 14 hours, which on	e of the following						
	organisms is likely to cause this illness?							
	a) Streptococcus pyogens b) Clostridium difficile c) Shigella dysenteriae d	) Salmonella enteritidis						
8.	Select the bacterial diseases							
	i) Diphtheria ii) Mumps iii) Amoebiasis iv) Tetanus v) Typh	noid						
	a) i) and iv) only b) i), ii) iii) and v) only c) i), iv) and v) only	d) ii), iii) and v) only						
II. An	swer any two of the following questions	4x2=8						
	Define Hologamy?							
10	. Define gametogenesis.							
11	. How does Mutation theory of De Vries differ from Lamarck and Darwin's	view in the origin of						
	new species.							
12	. Why do you think it is not possible to produce vaccine against 'common co	old'?						
13	. Why tRNA is called an adapter molecule?							
14	. What is bioremediation?							
III. A	nswer any three of the following questions (Q.no 19 is compulsory)	3x3=9						
15	. Define ART? Write about surrogacy?							
16	. Who disproved Lamarck's Theory of acquired characters? How?							
17	17. Give any two bioactive molecules produced by microbes and state their uses.							
18	18. List the causative agent, mode of transmission and symptoms for Diphtheria and Typhoid.							
	. State any three goals of the human genome project.	• 1						
	nswer the following question	2x5=10						
	. Describe the structure of the human ovum with a neat labelled diagram. (a	or)						
	What are the applications of Karyotyping?							
21	. Mention the main objections to Darwinism. (or)							
	Write the salient features of genetic code?							

DATE:2024 <u>STD: XII</u>	PRE-QUARTER BIO-ZOOLOO		TI	ME: 1½ HRS MARKS: 35					
I. Choose the correct answer       8x1=8         1. In an accident there is great loss of blood and there is no time to analyse the blood group which									
1. In an accident there is blood can be safely tra		there is no time to ar	halyse the blood	l group which					
•	b. O and Rh positive	c B and Rh negative	d AB and Rh	nositive					
•	ig is Hormone-releasing	-	u. / ID und Ith						
a. Progestasert		c. Saheli	d. Multiload 3	375					
3. The mature sperms ar	e stored in the								
a. Seminiferous tubule		1 •	d. Seminal ve	sicle					
	eproduction in bacteria	-							
<ul><li>a. Formation of gametes b. Endospore formation c. Conjugation d. Zoospore formation</li><li>5. Which of the following is the correct sequence of event with reference to the central dogma?</li></ul>									
				•					
-	a. Transcription, Translation, Replication b. Transcription, Replication, Translation								
<ul><li>c. Duplication, Transl</li><li>6. Darwin's finches are a</li></ul>	, <b>1</b>	d. Replication, Transc	cription, Transi	ation					
a. connecting links	b. seasonal migration		d parasitism						
7. Exo-erythrocytic schiz	•	-	a. parasitisti						
a. RBC	• •	c. Stomach	d. Liver						
8. The most common sul	bstrate used in distillerie	es for the production	of ethanol is						
a. Soyameal	b. Groundgram	c. Molasses	d. Corn meal						
II. Answer any two of the fo				4x2=8					
9. What are holandric ge	enes?								
10. Define Zymology.									
11. State Hardy Weinberg	g principle.								
12. How are STD's transr	nitted?								
13. What is inhibin? State	e its functions.?								
14. What is Hygine?									
III. Answer any three of the	following questions (	Q.no 19 is compulso	<u>ry)</u>	3x3=9					
15. Differentiate between	complete and incomple	ete parthinogenesis?							
16. Write the salient featu	ures of mutation theory?	?							
17. Give a schematic repr	17. Give a schematic representation of spermatogenesis and oogenesis in humans.								
18. What are the three structural differences between RNA and DNA?									
19. Differentiate between	prebiotics and probiotic	cs.							
IV. Answer the following qu	2x5=10								
20. Discuss the technique									
Give an account of ge	enetic control of Rh fact	cor.							
21. Write the goals of hur	nan genome project.	(or)							
Tabulate the types and mechanisms of innate immunity?									

## Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com

DATE: <u>STD: X</u>	22024 III	PRE-QUARTE BIO-ZOOLO		T	IME: 1½ HRS MARKS: 35			
I. Choose the correct answer8x1=8								
	Allergy involves a) IgE	b) IgG	c) lgA	d) IgM				
		ofuel day is observed e		u) igivi				
	a. 10th March	b. 10th April	c. 10th August	d. 10th Octob	ber			
	The Neanderthal mai a) 650 – 800cc	<ul> <li>had the brain capacity</li> <li>b) 1200cc</li> </ul>	y of c) 900cc	d) 1400cc				
	Meselson and Stahl's	,	c) 900cc	u) 1400cc	)			
	(a)Transduction	(b) Transform	nation	(c) DNA is the genet	ic material			
		e nature of DNA replic	cation					
	ABO blood group in a) Multiple alleles	man is controlled by b) Lethal genes	a) Say linkad a	genes d) Y-linked g	anas			
	· •	prevents ovulation by	c) Sex linked g	genes (d) I -miked g	enes			
(	(a) blocking fallopia	n tube	(b) inhibiting r	elease of FSH and Ll	H			
(	(c) stimulating releas	e of FSH and LH (d) c	ausing immediat	e degeneration of rel	eased ovum			
	_	normone in intiating an						
	a. Oestrogen	b. FSH	c. Prolactin	d. Oxytocin	a a lla d			
	_	ological and physiolog		-	called			
	a. merogamy <b>wer any two of the f</b>	b. isogamy	c. anisogamy	d. hologamy	4x2=8			
	Define karyotyping?				0			
10. ]	Define antibiotics.	0.4						
11. `	What are called conn	ecting links.						
	<ul><li>11. What are called connecting links.</li><li>12. Differentiate between internal and external fertilization?</li></ul>							
	<ul><li>13. Define menopause.</li><li>14. What is immunity?</li></ul>							
		e following questions	(O no 19 is con	mulsory)	3x3=9			
				<u>ipuisory</u>	5A5-7			
	<ul><li>15. Differentiate between monocistronic and polycistronic?</li><li>16. Write the two principles of Lamoralian theory?</li></ul>							
16. Write the two principles of Lamarckian theory?								
17. Give a note on PCOS.								
	18. Write about the Surgical sterilisation methods?							
19. Write about SCP.								
IV. Answer the following question2x5=10								
20. Discuss the extra embryonic membranes of human. (or)								
]	Explain the inheritance of Colour blindness in humans with flowchart.							
21. ]	21. Explain stabilizing, directional and disruptive selection with examples. (or)							
]	Explain the structure	of immunoglobulin wi	ith suitable diag	cam.				

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