Register			
Number			

Part III - ZOOLOGY

		(Ei	nglish Ve	ersion)			
Γiπ	ne Al	lowed: 3 Hours]		[Maximum Marks : 150	7		
			PART -	· I			
		Note: 1) All the questi	ons are t	o be answered.			
		ii) Each question	n carries	one mark.			
		iii) Choose and v	vrite the	correct answers in the answer-book.			
				$30 \times 1 = 30$)		
1.	Ger	ne pool is enriched by	000				
	a)	somatic variation	b)	increase in cytoplasm			
	c)	mutations	d)	decrease in chromosomes.			
2.	Among which population Sickle cell anaemia is more frequent?						
	a)	American Black	b)	African Black			
	c)	European White	d)	American White.			
3.	The culture practice which takes place in cold water is						
	a)	Race way culture	b)	Larvivorous fish culture			
	c)	Ornamental fish culture	d)	Sport fish culture.			
4.	Wh	ich disease is caused by pro	tozoan pa	arasite in fishes ?			
	a)	Septicaemia	b)	Costiasis			
	c)	Saprolegniasis	d)	Dropsy.			
5.	Wh	Which among the following is pearl oyster?					
	a)	Ostrea edulis	b)	Mytilus edulis			
	c)	Crossostrea madrasensis	d)	Pinctata fucata.			

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6.	Fee	eding jaggery along with limewat	er is	one of the first aid measures for
	a)	Anthrax	b)	Diarrhoea
	c)	Constipation	d)	Milk fever.
7.	Wh	nich is a Mediterranean breed ?		
	a)	Australorp	b)	Sussex
	c)	Cornish	d)	Minorca.
8.	Wh	nich of the following guards the fo	ertiliz	zed eggs in its mouth?
	a)	Tilapia	b)	Tuna
	c)	Pomfret	d)	Flat fish.
9.		nich instrument makes it poss mb?	ible	to hear the foetal sounds in mother
	a)	Endoscope	b)	Bronchoscope
	c)	Cystoscope	d)	Electronic stethoscope.
10.	Wh	ich beehive is not in practice in	India	1?
	a)	Newton	b)	Langstroth
	c)	Neubauer	d)	Jeolikote.
11.	Abo	out how many hereditary disease	s in	human beings have been identified?
	a)	About 400	b)	More than 300
	c)	About 100	d)	Less than 300.
12.	Ver	y short acrocentric chromosome	s are	grouped under
	a)	Group G	b)	Group B
	c)	Group F	d)	Group D.
13,	Wh	ich language does not help in Bi	oinfo	rmatics?
	a)	E-commerce	b)	JAVA
	c)	C++	d)	UNIX.
В				

14.	The	Gulf of Mannar Biosphere Rese	rve en	compasses how many small islands?
	a)	23	b)	20
	c) =	21	d)	22.
15.	The	head of which cattle breed is le	ong w	ith a bulging forehead and a prominent
	furr	ow in the middle?		
	a)	Haryana	b)	Hallikar
	c)	Kangayam	d)	Kankrej.
16.	The	principal hormone secreted by	corpu	s luteum is
	a)	Progesterone	p)	Oestrogen
	c)	Relaxin	d)	Oxytocin.
17.	The	more promising chemotheraper	itic ag	gent for treating viral diseases is
	a)	Ampicillin	b)	Anthramycin
	c)	Interferon	d)	Tetracycline.
18.	Whi	ich cells are liberated at the site	of in	fection in response to the infection?
	a)	Lymphocytes	b)	Thymocytes
	c)	Monocytes	d)	Leucocytes.
19.	Wh	ich antibody is involved in Aller	gy?	
	a)	Ig E	b)	Ig M
	c)	Ig G	d)	Ig A.
20.	Ins	ulin dependent diabetes is an e	xamp	le for
	a)	Allergic reaction	b)	Immunodeficiency disease
	c)	Anaphylaxis	d)	Auto-Immune disease.
21	. Th	e normal blood presure of a hea	lthy n	nan is
	a)	130/90 mm Hg	b)	100/70 mm Hg
	c)	120/80 mm Hg	d)	160/95 mm Hg.
22		e second heart sound (dubb) i	s hea	rd due to the closure of
	a)	Semilunar valve	b)	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
	c)	Atrioventricular valve	d)	Tricuspid valve.

70	53		4	
23	. R	apid Eye Movement sleep last	s for	
	a)	10 - 40 min	b)	02 - 20 min
	c)	15 - 35 min	d)	05 - 30 min.
24	. E	xcessive exposure to UV rays	can cau	se
	a)	Redness of eyes	b)	Skin cancer
	c)	Colour change	d)	Vomitting.
25.	. Di	uring glomerular filtration, the	malpigh	nian body acts as
	a)	Acid-base balancer	b)	Biological filter
	c)	Structural unit	d)	Biological buffer.
26.	Th	ne normal Body Mass Index ra	inge for a	adults is
	a)	19 – 20	b)	19 - 25
	c)	10 - 15	d)	15 - 20.
27.	WI	nich is an exopeptidase?		
	a)	Amylase	b)	Trypsin
	c)	Lipase	d)	Carboxypeptidase.
28.	Ter	atologic disorder refers to wh	ich type	of dislocation ?
	a)	Traumatic	b)	Congenital
	c)	Pathological	d)	Paralytic.
29.	Cal	clum ions necessary for the c	ontractio	on of muscles are released from
	a)	Sarcoplasmic reticulum	b)	Blood
	c)	Synovial membrane	d)	Protoplasm.
30.	Wh	ich disease is more common	n in con	amunities with very high rates of l
		ction ?		or a second of the second of t
*	a)	Pneumonia	b)	Bronchitis
	c)	Tuberculosis	d)	Pleurisy.
ALCOHOLD !				

PART - II

- Note: i) Answer any fifteen questions.
 - ii) Each question carries three marks.

 $15 \times 3 = 45$

- 31. What are essential amino acids? List out them.
- 32. What is Rigor mortis?
- 33. Write down the importance of cardio-pulmonary resuscitation.
- 34. What is meant by lateralization?
- 35. What are the characteristics of Myxoedema?
- 36. What do you know about the auditory ossicles?
- 37. What are corpus luteum and corpus albicans?
- Comment on pathogenicity of Ascaris.
- 39. What are haptens?
- 40. Define Bioinformatics.
- 41. What are the characteristics of Severe Combined Immunodeficiency?
- 42. Write about the impact of solar energy on the environment.
- 43. What are the control measures of cowpox?
- 44. What are the points that should be considered during selection of eggs in poultry?
- 45. What are the uses of Stethoscope?
- 46. What is Royal Jelly?
- 47. What is Sercin?

- 48. What is meant by chromosomal aberration?
- 49. What do you know about Chicken-Fish culture?
- 50. Expand the following acronyms:
 - a) CIBA
 - b) CIFA
 - c) CMFRI.

PART - III

- Note: It Answer any seven questions including Question No. 56 which is compulsory.
 - Each question carries five marks.

 $7 \times 5 = 35$

- 51. Give an account of the regulation of respiration.
- 52. Describe the structure of sarcomere.
- 53. Enumerate the adaptations of pathogenic microbes.
- 54. Write notes on Cholera and Plague.
- 55. Give an account of immunodeficiency diseases.
- 56. What are the various effects of global warming?
- 57. How can poverty in human society be eradicated?
- 58. What do you know about artificial insemination?
- 59. What are the advantages and disadvantages of autoanalyser?
- 60. Write down the mechanisms that prevent interspecific crosses.
- 61. What are the bionomics and salient features of Macrobrachium rosenbergii?
- 62. Write a note on Brackish water culture.

PART - IV

- Note: i) Answer any four questions.
 - ii) Each question carries ten marks.

 $4 \times 10 = 40$

- 63. Explain the digestive process taking place in small intestine.
- 64. Write an essay on the physiological effects of the hormones of pancreas.
- 65. Describe menstrual cycle.
- 66. Give an account of Viral diseases.
- 67. Give an account of Human Genome Project.
- 68. What do you know about Freshwater Management?
- 69. Give a detailed account of Electrocardiogram.
- 70. What are the things you have to know for setting up an Aquarium tank for Ornamental fish culture? Mention the characteristics of any five ornamental fishes.