M	M	2000	2	2	PIS	

3051

Register			
Number			

## Part III - ZOOLOGY

(English Version)

		(1311811	OII V	
Tim	ne All	lowed: 3 Hours]		[ Maximum Marks : 150
		PA	ART -	I me time duration of France in I
		Note: i) All the questions	are t	o be answered.
		ii) Each question ca	irries	one mark.
		iii) Choose and write	e the	correct answers in the answer-book.
				$30 \times 1 = 30$
1.	The	e raw material for evolution is	*	Veliant Observer
**	a)	temperature	b)	over-production
	c)	mutation	d)	somatoplasm.
2.	Nev	w Darwinism was accepted by		alle p3 (e
	a)	Wallace	b)	F. B. Sumner
	c)	McDougall	d).	Huxley.
3.	In o	cultivable fishes, blindness and	haem	orrhage are the symptoms for
	a)	Costiasis	b)	Dropsy
	c)	Gill rot	d)	Saprolegniasis.
4.	The	suitable salinity of water for Pe	arl cu	alture is
	a)	30%	b)	10%
	c)	20%	d)	40%.

5.	Which is the medicinal food of 21st Century?				
	a)	Oyster	b)	Sea weed	
	c)	Prawn	d)	Fishes.	
6.	Peac	comb is the important breed cha	racte	r of	
	a)	Plymouth	b)	Brahma	
	c)	Leghorn	d)	Sussex.	
7.	The	time duration of P-wave in E.C.	G. is		
	a)	0·1 second	b)	0.08 second	
	c)	0.27 second	d)	0.01 second.	
8.	The	use of beehive products to pron	note h	nealth and healing is called	
	a)	Physiotherapy	b)	Chemotherapy	
	c)	Apitherapy	d)	Orthopaedics.	
9.	Which one of the following is the superior quality of silk?				
	a)	Eri silk	b)	Tasar silk	
	c)	Munga silk	d)	Mulberry silk.	
10.	The	fish that guards the fertilized e	ggs in	its mouth is	
	a)	Mullet	b)	Tilapia	
	c)	Pomfret	d)	Catla catla.	
11.	In k	karyotyping X chromosome belor	ngs to	i sol selswite stalles in tall	
	a)	A-group	b)	B-group	
	c)	C-group	d)	D-group.	

12.	The	existence of mobile genetic elem	ents (	(Transposons) were visualized by	
	a)	Watson & Crick			
	b)	Barbara Meclintock			
	c)	Anand Chakrabarty			
	d)	Briggs and King.		allow professional property and the	
13.	'Glo	wing Coal' is the computer graph	nic mo	odel of	
	a)	DNA	b)	Carbohydrate	
	c)	Lipid	d)	Protein.	
14.	Wh	ich is rich in Plant Bio-diversity	?		
	a)	Nilgiri	b)	Gulf of Mannar	
	c)	Nokrek	d)	Great Nicobar.	
15.		e milk of which of the followintent?	ng co	ows is characterisd by high carotene	
	a)	Sindhi	b)	Haryana	
	c)	Gir	d)	Jersey.	
16.	Spe	erms are stored in the		gra 36) ni teannia 350, jeune si e-12	
	a)	Testes	b)	Prostate gland	
	c)	Epididymis	d)	Seminal vesicle.	
17	7. The most promising chemotherapeutic agent for treating viral diseases is				
	a)	Interferon	b)	Penicillin	
	c)	Amantadine	d)	Streptomycin.	

18.	Cell mediated immunity is the responsibility of				
	a)	Cytotoxic T-lymphocytes		imo sa	
	b)	B-lymphocytes		deplates it as	
	c)	Macrophages		on design	
	d)	Antigen presenting cells.			
19.	Graf	ft between identical twins is call	ed as	ni milipinos tati al liso	
	a)	Autograft	b)	Isograft	
	c)	Allograft	d)	Xenograft.	
20.	Whi	ch of the following is a primary l	ymph	oid organ ?	
	a)	Thymus	b)	Spleen	
	c)	Lymph nodes	d)	MALT.	
21.	The	largest leucocytes are		ofice our to note to	
	a)	Monocytes	b)	Lymphocytes	
	c)	Neutrophils	d)	Basophils.	
22.	The	substance released in the neuro	muso	cular junction is	
	a)	Calcium phosphate	b)	Acetylcholine	
	c)	Glycoprotein	d) ·	Potassium chloride.	
23.	Chr	onic brain syndrome is otherwis	e call	ed as	
	a)	Myasthenia gravis	b)	Amnesia	
	c)	Alzheimer's disease	d)	Stroke.	

24.	The	major mineralocorticoid hormon	e is	
	a)	Aldosterone	b)	Corticosterone
	c)	Catecholamine	d)	Adrenaline.
25.	Whi	ich of the following is used to re	move	stones from the urinary bladder?
	a)	Plasmaphoresis	b)	Endoscopy
	c)	Dialysis	d)	Cystoscopy.
26.	Imn	nunity against infection is provid	led by	
	a)	Vitamin A	b)	Vitamin K
	c)	Vitamin C	d)	Vitamin D.
27.	The	normal BMI range for adult is		
	a)	20 - 30	b)	19 - 25 Amore and a section
	c)	15 - 20	. d)	10 - 15.
28.	Whi	ch is characterised by the depos	ition	of sodium urate crystals?
	a)	Rheumatoid arthritis	b)	Osteoarthritis
	c)	Gout	d)	Rickets.
29.	Gall	stones are made up of		
	a)	sodium urate	b)	calcium oxalate
	c)	glycogen	d)	cholesterol.
30.	The	alveolar PO 2 is about		T seeging
	a)	100 mm Hg	b)	140 mm Hg
	c)	40 mm Hø	d)	46 mm Hø

## PART - II

Note: i) Answer any fifteen questions.

ii) Each question carries three marks.

 $15 \times 3 = 45$ 

- 31. What is 'PUFA'? Mention its significance.
- 32. Name the enzyme present in saliva. State its function.
- 33. Define Physiotherapy.
- 34. What is 'Silent infarction'?
- 35. What is Rigor Mortis?
- 36. What is cataract? Mention the two types of cataract.
- 37. What is Vasectomy?
- 38. What are the three kinds of Proglottids in Tapeworm?
- 39. What is Severe Combined Immuno Deficiency disease ( SCID ) ?
- 40. What are superbugs? What is the use of superbugs?
- 41. Write a merit of cloning technique.
- 42. What is carbon sequestration?
- 43. How will you identify a healthy cattle?
- 44. What are the points to be considered during selection of eggs for hatching purpose?
- 45. What are the advantages of Autoanalyser?
- 46. What is 'Swarming'?

- 47. Mention the three stages of sericulture.
- 48. State Hardy-Weinberg's law.
- 49. What is hypophystation?
- 50. What is a Bouchot?

## PART - III

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

 $7 \times 5 = 35$ 

- 51. Describe the process of clotting of blood.
- 52. What is memory? Write about the various types of memory.
- 53. Give an account of Bacterial genetics.
- 54. Enumerate the symptoms of AIDS, defined by WHO.
- 55. Describe the structure of Immunoglobulin with a neat diagram.
- 56. Enumerate any five effects of Global warming.
- 57. Write any five reasons for fresh water shortage.
- 58. Write a short note on artificial pacemaker.
- 59. Describe the formation of silk.
- 60. Write short notes on Sewall Wright effect.
- Give an account of integrated fish culture.
- 62. How will you set up an aquarium tank?

3051 8

## PART - IV

Note: i) Answer any four questions.

ii) Each question carries ten marks.

 $4 \times 10 = 40$ 

- 63. Explain the process of digestion at small intestine.
- 64. Give an account of the hormones secreted by anterior pituitary.
- 65. Write an essay on menstrual cycle.
- 66. Give an account of various viral diseases in man.
- 67. Describe any four genetic diseases.
- 68. Describe the management of hazardous waste.
- 69. Give an account of edible fresh water fishes of Tamil Nadu.
- 70. Explain the physical, chemical and biological factors of a fish pond.