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Part III — ZOOLOGY

		(Engl	ish Ve	ersion)
Tim	ne Al	lowed: 3 Hours]		[Maximum Marks : 150
		P	ART -	of sitter to cersus few od? 12
		Note: i) All the questions	Alle II	
		ii) Each question ca	arries	one mark.
		iii) Choose and write	e the o	correct answers in the answer-book.
		alterida		30 × 1 = 30
1.	Lan	narck proposed a theory called		antrow to
	a)	inheritance of acquired charac	cters	8. The control for identification of un
	b)	organic evolution		hertein telamolyanmassi (m.
	c)	theory of abiogenesis		b) Chromitrigaphy
	d)	theory of universal existence.		budities estemonald (is
2.	Sick	xel cell anaemia is more frequen	t amo	ng population.
	a)	African black	b)	American black
	c)	European white	d)	Asian population.
3.	Car	p fish is normally cultured by		10 The pacepialne of the heart is
	a)	composite fish culture	b)	race way culture
	c)	sewage fed fish culture	d)	integrated fish culture.

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4.	Identify the zoological name for 'Koduva'.			
	a)	Ostrea edulis	b)	Scylla serrata
-	c)	Lates calcarifer	d)	Penaeus indicus.
5.	Guj	ppy is an exotic variety of ornam	ental	fish which originates from
	a)	Africa	b)	Thailand
	c)	Central America	d)	Japan.
6.	The	e viral disease of cattle is		
	a)	Mastitis	b)	Tuberculosis
	c)	Haemorrhagic septicaemia	d)	Foot and mouth.
7.	The	e fish food organisms are		
	a)	zooplanktons	b)	plants
	c)	worms	d)	bacteria.
8.	The	method for identification of urin	ne su	gar is
	a)	Haemocytometer method		
	b)	Chromatography		all almost media
	c)	Manometer method		
	d)	Electronic urine test method.		
9.	Bee	-venom is useful for curing		in annemia is more li equer
	a)	fever	b)	ulcer
	c)	rheumatism	d)	tumour.
10.	The	pacemaker of the heart is		is a normally cultured by
	a)	Sinuatrial node	b)	Cardiac muscle
	c)	AV node	d)	Myocardium.

11.	Sup	er bugs are used for 7 to					31
	a)	clean oil spill	b)	karyotype study			
	c)	kill virus	d)	kill bacteria.	lestopoutes		
12.	The	stage which is ideal for transfer	of w	hole chromosome i	s		
	a)	anaphase	b)	telophase			
	c)	prophase	d)	metaphase.			
13.	DNA	A library is a collection of					
	a)	chromosomal fragments	b)	DNA fragments			
	c)	RNA fragments	d)	complete DNA.			
14.	The	more abundant greenhouse gas	is				
	a)	N ₂ O	b)	CO ₂			
	c)	03	d)	SO ₂ .			
15.	The	home of Sindhi breed is		ity to ventracles			
	a)	Baroda	b)	Karachi and Hyde	erabad	, fel	
	c)	Haryana and Ongole	d)	Maharashtra.			
16.	In h	numan, the fertilization occurs in	the		To relax the		
	a)	fallopian tube	b)	uterus	averago welg		
	c)	vagina	d)	cervix.			
17.	Rah	pies virus belongs to a type of vir	rus ca	alled	estadotrophi		
	a)	oncogenic virus	b)	rhabdo virus			
	c)	retro virus	d)	variola virus.			
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18	. Inr	nate immunity through 'Phagocy	tosis'	is provided by		
	a)	erythrocytes	b)	thrombocytes		
	c)	leucocytes	d)	antibodies.		
19.	The	e thymus functions best during		tage which is ideal for unusier		
	a)	later life	b)	middle age		
	c)	sleeping	d)	early life.		
20.	The	e immunoglobulins are made up	of			
	a)	lipoproteins	b)	phosphoproteins		
	c)	glycoproteins	d)	simple proteins.		
21.	. The floor of thoracic cage is provided with					
	a)	peritonial membrane	b)	internal intercostal muscles		
	c)	diaphragm	d)	external intercostal muscles.		
22.	Wha	at is the function of Purkinje sys	stem	?		
	a)	To give rigidity to ventricles		some of Sindhi breed in		
	b)	To give flexibility to ventricles		40 met		
	c) Conducting impulses to the ventricles					
	d)	To relax the muscles after syst	ole.			
23.	The	average weight of the cerebrum	in h	uman female is about		
	a)	900 – 1000 g	b)	1200 g		
	c)	1100 g	d)	1400 g.		
24.	The	gonadotrophic hormone is				
	a)	TSH	b)	GH		
	c)	FSH	d)	ACTH.		

	a)	pancreas		
		pariercas	b)	stomach
- 08	c)	kidney	d)	liver.
26.		energy released by oxidation	from g	lucose molecules gets stored in the form
	of			
	a)	Adenosine monophosphate m	olecule	es (AMP)
	b)	Adenosine diphosphate mole	cules (ADP)
	c)	Adenosine triphosphate mole	cules (ATP) de ede le amplemye sett albiv
	d)	Phosphate molecules.		S. Delice harmones.
27.	Mar	asmus is caused due to the de	eficienc	y of
	a)	Carbohydrates	b)	Fats
	c)	Vitamin D	d)	Proteins.
28.	Dige	estion is carried out with the h	elp of	
	a)	Hormones	b)	Enzymes
	c)	Catalysts	d)	Vitamins.
29.	The	blood clot at the place of fract	ture for	ms
	a)	arterial thrombus	b)	infarction of bone
	c)	haematoma	d)	callus.
30.	A fe	w hours after death all the mu	uscles (of the body attain a state of contracture.
	It is	called as		t. Name the two types of Spinymoniano
	a)	muscle pull	b)	muscle fatigue
	c)	rigor mortis	d)	muscle tear.

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PART - II

Note: i) Answer any fifteen questions.

ii) Each question carries three marks.

 $15 \times 3 = 45$

31. What are essential amino acids?

32. How are the gall stones formed?

33. Define the term 'Physiotherapy'.

34. Write the symptoms of chronic bronchitis.

35. Define hormones.

36. Name two types of cataract.

37.\ How is calculus formed?

38. Define antibiotic.

39. Write a note on graft rejection.

40. Mention two uses of Karyotyping.

41. What is the cause for albinism?

42. What is called seeding clouds?

43. What is milk fever?

44. Name the two types of Sphygmomanometer.

45. Define Apiculture.

46. What is CT Scan?

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- 47. Mention the various enemies of silkworm.
- 48. What is meant by chromosomal aberration?
- 49. Define aquaculture.
- 50. What is called Hapa?

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. Give a brief account of proteins.
- 52. Describe the endocrine functions of Neurohypophysis.
- 53. Write a short note on virus structure.
- 54. Explain Amoebiasis.
- 55. What is transplantation?
- 56. Give an account on wind energy.
- 57. Write a short note on rain water harvesting.
- 58. Explain the draught breeds of cattle.
- 59. Describe stethoscope with suitable diagram.
- 60. Describe the modern concept of natural selection.
- 61. Give an account of sea-weed culture.
- 62. What are the prospects of aquaculture?

PART - IV

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

 $4 \times 10 = 40$

- 63. Explain the process of digestion in small intestine.
- 64. Give an account on the composition of blood.
- 65. Explain the mechanism of hearing in man with suitable diagram.
- 66. Describe the mechanisms of acquired immunity through immunoglobulins.
- 67. Describe any four of the genetic diseases in detail.
- 68. Write an essay on greenhouse gases and their impact on the environment.
- 69. Explain the stages involved in the rearing of poultry.
- 70. What is fresh-water aquaculture? Classify its types.