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Part III — ZOOLOGY						
(English Version)						
			( E	ngusu ve	rsion)	
Γin	ne All	lowed: 3 Hou	urs ]			Maximum Marks: 150
				PART -	I	
		Note: i)	All the quest	ions are to	be answered.	G
		ii)	Each question	n carries o	one mark.	
		iii)				in the answer-book.
		· · · · · · · · · · · · · · · · · · ·		Wille the C		$30 \times 1 = 30$
	m1				70,	
1.	The	e mability to re	ecall memories	from the	past is called a	AS
	a)	Amnesia		b)	Coma	a little terrerelle entrity
	c)	REM sleep		d)	Alzheimer.	
2.	The	hormone wh	ich directly sti	mulates th	ne smooth mu	scles of uterus and causes
	the	contraction a	nd helps in th	e delivery	of the foetus is	
	a)	Thyroxine	C	b)	Estrogen	
	c)	Progesteron	e	d)	Oxytocin.	
3.	The hormone that increases the rate of amplitude and frequency of heartbeat is					
	a)	Epinephrine		b)	Norepinephri	ne
	. c)	Aldosterone		d)	Cortisone.	
1.	. The unit which is used to measure the intensity of sound is					
	a)	hertz		b)	joule	
	c)	decibel		d)	newton.	is musical to
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5.	The	normal blood glucose level durin	g fasi	ting is		
	a)	70 to 110 mg/dl	b)	80 to 200 mg/dl		
	c)	100 to 150 mg/dl	d)	200 to 250 mg/dl.		
6.		hromosome belongs to				
0.						
	a)	Group A	b)	Group B		
	c)	Group C	d)	Group D.		
7.	Abo	ut how many genes have been ide	entifi	ed in human genome?		
	a)	60,000	b)	30,000		
	c) ·	10,000	d)	800.		
8.	The	sequential and linear arrangement	ent of	f amino acids in a polypeptide represer		
	its		10	New hear newards that		
	a)	Primary structure	b).	Secondary structure		
F	c)	Tertiary structure	d)	Stable structure.		
9. Of the following, which is non-biodegradable waste?				ble waste?		
	a)	Leather	b)	Fibre		
	c)	Paper	d)	Plastic.		
10.	The	hatching period of hen's egg is a	bout	the college of the Colorest for dell		
	a)	21-22 days	b)	18-20 days		
	c)	23-24 days	d)	15-17 days.		
11.	The	theory of inheritance of acquired	char	racters was proposed by		
	a)	Charles Darwin	b)	Lamarck		
	c)	Hugo de Vries	d)	H. J. Muller.		
12. The factor that enriches the gene pool			ol with new modified genes is			
	a)	mutation	b)	somatic variation		
		decrease in chromosomes	d)	increase in cytoplasm.		

13.	Which one of the following is an exotic fish?				
	a)	Catla	b)	Rohu	
	c)	Tilapia	d)	Mugil.	
14.	App	earance of small red spots on gil	l filar	ment is the symptom of	
	a)	Saprolegniasis	b)	Dropsy	
	c)	Gill rot	d)	Costiasis.	
15.	The	place in which more than 300	speci	es of marine ornamental fishes are seen	
	is			to separate transmit	
	a)	Lakshadweep islands	b)	Andaman Group of islands	
	c)	Gulf of Mannar	d)	Palk Bay.	
16.	Eac	h gram of carbohydrate is capab	le of y	yielding	
	a)	9.3 calories	b)	4.1 calories	
	c)	4.0 calories	d)	9.0 calories.	
17.	The	ulcer is caused mostly due to th	e infe	ection of the bacterium called	
	a)	Salmonella	b) ,	Helicobacter pylori	
	c)	Acetobacter aceti	d)	Yersinia pestis.	
18.	Slid	ing-filament hypothesis of musc	ular c	contraction was proposed by	
	a)	Singer and Nicholson	b)	William Harvey	
	c)	Hanson and Huxley	d)	Hippocrates.	
19.	Path	nological fracture may be caused	due	to	
	a)	Hyperparathyroidism	b)	Hypoparathyroidism	
	c)	Hypothyroidism	d)	Hyperthyroidism.	
20.	Whe	en a portion of a thrombus clot b	ecom	es fragmented and enters the circulating	
	bloc	od is called as			
	a)	Bolus	b)	Embolus	
	c)	Cerebral thrombosis	d)	Coronary thrombosis.	
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21.	. The first line of treatment which disintegrates stones by focusing shock waves on					
	them from outside the body is					
	a)	cystoscopy	b)	lithotripsy		
	c)	endoscopy	d)	ureterorenoscopy.		
22.	2. Which is referred to as obligate intracellular parasites?					
	a)	Plasmodium	b)	Ascaris		
	c)	Viruses	d)	Bacteria.		
23.	Hist	amine is secreted by				
	a)	Epithelial cells	b)	Red blood cells		
	c)	White blood cells	d)	Mast cells.		
24.	The	heavy chain (H-Chain) of in	nmui	noglobulin has a molecular weight of		
	app	roximately		Commence of the commence of th		
	a)	50,000 daltons	b)	25,000 daltons		
	c)	75,000 daltons	d)	40,000 daltons.		
25.	The chemical groups which are not immunogenic on their own are defined as					
	a)	Antigens	b)	Immunogens		
	c)	Paratope	d)	Hapten.		
26.	. Of all carps which is considered as the tastiest fish ?					
	a)	Catla catla .	b)	Labeo rohita		
	c)	Catfishes	d)	Cirrhinus mrigala.		
27.	Whi	ch blood is used in blood cells c	ounti	ng?		
	a)	Artery blood	b)	Venous blood		
	c)	Kidney blood	d)	Capillary blood.		
28.	Whi	ich instrument is used to examir	ne the	e interior of the body cavity?		
	a)	Endoscope	b)	Sphygmomanometer		
	c)	Stethoscope	d)	CT scan.		

- 29. The disease Nosema is caused by
  - a) Bacteria

b) Protozoa

Fungus c)

- d) Viruses.
- 30. Which silk is considered as superior in quality?
  - Mulberry silk

- Tasar silk b)
- Munga silk d) Eri silk. c)

## PART - II

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Note: i) Answer any fifteen questions.

ii) Each question carries three marks.

- 31. What is marasmus? Mention its symptoms.
- 32. What are the types of Hernia?
- 33. What is meant by dislocation of joints? Classify them.
- 34. What is bronchitis? Mention its types
- 35. Write a short note on Alzheimer's disease.
- 36. Trace the pathway of the sound wave to the brain.
- 37. Write any six symptoms of Grave's disease.
- 38. What are the vaccines developed by Louis Pasteur?
- 39. What are the three main functions of antibodies?
- 40. What is called pedigree analysis?
- 41. What is Gene therapy? Mention its types.
- 42. What is called rain water harvesting? State its advantages.

1053

- 43. What are the symptoms of cow pox?
- 44. Based on its origin, list out the exotic breeding of fowl. Give examples.
- 45. What are the disadvantages of autoanalyser?
- 46. What is 'Nuptial flight'?
- 47. Mention the important research centres of Sericulture in India.
- 48. What is 'bottleneck effect'?
- 49. Define integrated fish culture.
- 50. Mention the nutritive value of edible oyster.

## 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. What are the factors responsible for obesity?
- 52. Describe the functional area of the cerebral cortex.
- 53. Enumerate the methods of control and management of AIDS.
- 54. Explain the pathogenicity of Ascaris lumbricoides and its control.
- 55. Explain the classification of grafts with examples.
- 56. List out the greenhouse gases and their sources.
- 57. What are the various measures to eradicate poverty in human society?
- 58. Explain Artificial insemination of cattle.
- 59. What are the uses of C.T. scan?

- 60. Explain the role of chromosome aberrations in modern Synthetic theory of Evolution.
- 61. What are the prospects of Aquaculture?
- 62. What are the bionomics of CatlaCatla?

## PART - IV

Note: i) Answer any four questions.

ii) Each question carries ten marks.

 $4 \times 10 = 40$ 

- 63. Write an essay on composition of blood.
- 64. Enumerate the various eye defects. Comment on corrective measures.
- 65. What is the need for birth control? Enumerate the various methods of contraception.
- 66. Give an account of bacterial diseases in man.
- 67. Illustrate with example, the cloning mechanism. Comment on its merits and demerits.
- 68. What is known as energy crisis? What are the steps to be taken to solve energy crisis?
- 69. Give an account of the uses of Beehive products.
- 70. Explain the induced breeding technique in fish culture.

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