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Part III - ZOOLOGY

(English Version)

Time Allowed: 3 Hours]	[Maximum Marks : 150

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	Note: i) All the qu	estions are to be answered.	
	ii) Each que	estion carries one mark.	
	iii) Choose a	nd write the correct answers in the an	swer-book.
			30 × 1 = 30
1.	The inability to recall memo	ories from the past is called as	permit Village
	a) Amnesia	b) Coma	erostolas (12)
	c) REM sleep	d) Alzheimer.	
2.	The hormone which directly	y stimulates the smooth muscles of ut	erus and causes
	the contraction and helps in	n the delivery of the foetus is	
	a) Thyroxine	b) Estrogen	
	c) Progesterone	d) Oxytocin.	
3.	The hormone that increases	the rate of amplitude and frequency	of heartbeat is
	a) Epinephrine	b) Norepinephrine	
	c) Aldosterone	d) Cortisone.	
4.	The unit which is used to m	easure the intensity of sound is	
	a) hertz	b) joule	
	c) decibel	d) newton.	

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5.	The	normal blood glucose level duri	ng fas	sting 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.	X-C	chromosome belongs to		
	a)	Group A	b)	Group B
	c)	Group C	d)	Group D.
7.	Abo	out how many genes have been i	dentif	ied in human genome?
	a)	60,000	b)	30,000
	c)	10,000	d)	800.
8.	The	e sequential and linear arranger	nent o	of amino acids in a polypeptide represen
	a)	Primary structure	b)	Secondary structure
	c)	Tertiary structure	d)	Stable structure.
9.	Of	the following, which is non-biode	egrada	able waste?
	a)	Leather	b)	Fibre .
	c)	Paper	d)	Plastic.
10.	The	hatching period of hen's egg is	about	tion on an end Cobey strangaring on
	a)	21-22 days	b)	18-20 days
	c)	23-24 days	d)	15-17 days.
11.		theory of inheritance of acquire	ed cha	racters was proposed by
	a)	Charles Darwin	b)	Lamarck
	c)	Hugo de Vries	d)	H. J. Muller.
12.		factor that enriches the gene p	ool wi	th new modified genes is
	a)	mutation	b)	somatic variation
	c)	decrease in chromosomes	d)	increase in cytoplasm.

			1	100
13.	Whi	ch one of the following is an exot	ic fis	h ? Rohu
	a)	Catla	b)	Rohu
	c)	Tilapia	d)	Mugil.
14.	App	earance of small red spots on gill	l filan	nent is the symptom of
	a)	Saprolegniasis	b)	Dropsy
	c)	Gill rot	d)	Costiasis.
15.	The	place in which more than 300 s	specie	es of marine ornamental fishes are seen
	a)	Lakshadweep islands	b)	Andaman Group of islands
	c)	Gulf of Mannar	d)	Palk Bay.
16.	Eacl	h gram of carbohydrate is capabl	e of y	rielding
	a)	9.3 calories	b)	4.1 calories
	c)	4.0 calories	d)	9.0 calories.
17.	The	ulcer is caused mostly due to the	e infe	ction of the bacterium called
	a)	Salmonella	b) ,	Helicobacter pylort
	c) .	Acetobacter acetl	d)	Yersinia pestis.
18.	Slid	ing-filament hypothesis of muscu	ılar c	ontraction was proposed by
	a)	Singer and Nicholson	b)	William Harvey
	c)	Hanson and Huxley	d)	Hippocrates.
19.	Path	nological fracture may be caused	due t	to
	a)	Hyperparathyroidism	b)	Hypoparathyroidism
	c) _	Hypothyroidism	d) ·	Hyperthyroidism.
20.		en a portion of a thrombus clot b	ecom	es fragmented and enters the circulating
	a)	Bolus	b)	Embolus
	c)	Cerebral thrombosis	d)	Coronary thrombosis.

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				grates stones by focusing shock waves of
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21.		first line of treatment which di m from outside the body is	sinteg	rates stones by focusing shock waves of
	a)	cystoscopy	b)	lithotripsy
		endoscopy	d)	ureterorenoscopy.
00	c)			
22.		ich is referred to as obligate intr		
	a)	Plasmodium	b)	Ascaris
	c)	Viruses	d)	Bacteria.
23.	His	tamine is secreted by		
	a)	Epithelial cells	b)	Red blood cells
	c)	White blood cells	d)	Mast cells.
24.	The	heavy chain (H-Chain) of	immu	noglobulin has a molecular weight of
	app	roximately		ein 49 0.8 = 6.
4	a)	50,000 daltons	b)	25,000 daltons
	c)	75,000 daltons	d)	40,000 daltons.
25.	The	chemical groups which are not	immu	anogenic on their own are defined as
	a)	Antigens	b)	Immunogens
	c)	Paratope	d)	Hapten.
26.	Of a	all carps which is considered as	the ta	stiest fish ?
	a)	Catla catla	b)	Labeo rohita
	c)	Catfishes	d)	Cirrhinus mrigala.
07		ich blood is used in blood cells		
21.			b)	Venous blood
	a)	Artery blood		Capillary blood.
	c)	Kidney blood	d)	nala altomonera a la collègica desentre de la
28.	Wh	ich instrument is used to exami		
	a)	Endoscope	b)	Sphygmomanometer
	c)	Stethoscope	d)	CT scan.

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PART - II

i) Answer any fifteen questions.

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ii) Each question carries three marks.

 $15 \times 3 = 45$

- 31. What is marasmus? Mention its symptoms.
- 32. What are the types of Hernia?

c)

- 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?

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- 41. What is Gene therapy? Mention its types.
- 42. What is called rain water harvesting? State its advantages.

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- 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?

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Student Bounty Com 60. Explain the role of chromosome aberrations in modern Synthetic the 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.

