a)

c)

kidney

lungs

Register		"	 	
Number			 ,	

Part III — ZOOLOGY

(New Syllabus) (English Version)

Time Allowed: 3 Hours] Maximum Marks: 150

PART - I

All the questions are to be answered. Note:

Each question carries one mark.

iii) Choose and write the correct answers in the answer-book. $30 \times 1 = 30$ Unremitting chest pain is due to the disease 1. a) Angina Myocardial infarction b) c) Anaemia Polycythemia. d) 2. Men are affected earlier by Atherosclerosis than women because women have a natural hormone called androgen pepsinogen al b) c) oestrogen d) casinogen. The most important function of the adrenal cortex is its role in 3. milk production b) stress tolerance a) reproduction blood clotting. c) d) The principal organ of urea biosynthesis is

tissue

liver.

d)

Turn over

5.	The	conditioned reflexes are control	led b	y
	a)	Cerebral cortex		
	b)	Cerebellar cortex		
	c)	Medullar cortex		
	ď)	Cerebral nuclei.		
6.	The	uptake of genes by the cells in	anima	als is called
	a)	Transduction	b)	Deletion
	c)	Translocation	d)	Transfection.
7.	A fa	ital disease caused by autosomal	dom	inant gene is
,	a)	Sickle cell anaemia	b)	Thalassemia
	c)	Huntington's chorea	d)	SCID.
8.	The	information regarding the three	e dim	nensional structure of proteins is stored
	in c	computerised database called	*	90
3	a)	Protein data bank		
	b)	Protein 3D structure)	
	c)	DNA library		
	d)	Protein model.		
9. The gas which traps 300 times more heat than carbon dioxide is				t than carbon dioxide is
	a)	Methane		
	b)	Chlorofluorocarbon		
	c)	Nitrous oxide		
-	d)	Hydrocarbon.		
10.	The	presence of vesicles, pustules	and	scabies on skin, udder and teats is the
	sym	optom of the disease called		
	a)	Milk fever	b)	Constipation
	c)	Anthrax	d)	Cow-pox.

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11. The gene for sickle cell anaemia protects their inheritors from

	a)	Jaundice		
	b)	Tuberculosis		
	c)	Chicken pox		
•	d)	Malaria.		
12.	The	Neo-Darwinians believed that th	e cha	aracters are due to certain factors called
	a)	determinants	b)	genes
	c)	pangenes	d)	chromosomes.
13.	Whi	ch one of the following is an exo	tic fis	sh?
-	a)	Catla	b)	Rohu
	c)	Tilapia	d)	Mrigal.
14.		e preferable age group for the inique is	e sel	lection of breeder in hypophystation
	a) .	2 – 3 years	b)	3 – 4 years
	c)	2 - 4 years	d)	2 - 5 years.
15.	Hat	chery technology for seaboss ha	as be	en developed for the first time in India
	by	CHO.		
	a)	ICFA	b)	MPEDA
	c)	CMFRI	d)	CIBA.
16.	. In foodgrains the starch is available in the form of			
	a)	Pectin ·	b)	Chitin
	c)	Cellulose	d)	Galactose.
17.	The	process of maturation of erythro	cytes	s is due to Vitamin
	a)	B 6	b)	\boldsymbol{B}_1
	c)	B_2	d)	B ₁₂ .
A				[Turn over

18.	The	The fractures due to pathological lesions may be due to			
	a)	hypothyroidism			
	b)	hypoparathyroidism			
	c)	hyperparathyroidism			
	d)	hyperthyroidism.		•	
19.	A sı	nall segment of the myofibril is called as			
	a)	sarcolemma	b)	sarcomere	
-	c)	a band	d)	myosin.	
2 0.	Wh	en the alveoli is stretched, the	rece	ptors send stimuli to expiratory centre	
	thro	ough			
	a)	Phrenic nerves	b)	Intercostal nerves	
	c)	Cutaneous nerves	d)	Vagus nerves.	
2 1.	The	fertilization of the ovum takes p	lace	n the region called	
	a)	uterus	b)	vagina	
	c)	fallopian duct	d)	vas deferens.	
22. The discovery of Joseph Lister on the microbes was					
	a)	staining procedure	b)	fermentation	
	c)	antiseptic surgery	d)	viruses.	
23.	Whi	ch of the following is antiviral?			
	a) .	Interferon	b)	Lysozyme	
	c)	Protein	d)	Hormone.	
24.	Grai	ft used in plastic surgery is			
	a)	Xenograft	b)	Allograft	
	c)	Autograft	d)	Isograft.	
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25 .	The complex foreign molecules that activate the specific immunity are called				
	a)	antigens	b)	antibodies	
	c)	leucocytes	d)	T-cells.	
26.	6. The most popular American breed of fowls is				
	a)	Plymouth rock	b)	Leghorn	
	c)	Light Brahma	d)	Dark Brahma.	
27.	7. In brooding the hatched chicks are kept inside the incubator for about				
	a)	24 hours	b)	30 hours	
	c)	36 hours	d)	42 hours.	
28.	8. The instrument used to count the blood cells is called				
	a)	Stethoscope		10	
	b)	Sphygmomanometer			
	c)	Electrocardiogram			
	d)	Haemocytometer.			
2 9.	. The disease that blocks the trachea by a small parasitic mite in Bee is called				
	a)	Chalk brood	b)	Sac brood	
	c)	Acarina	d)	Nosema.	
30.	Rea	ring of silkworm and adoptio	n of	different rearing techniques for the	
production of silk threads is know			as		
	a)	Sericulture	b)	Apiculture	
	c)	Aquaculture	d)	Moriculture.	
A				[Turn over	

PART - II

Note: i) Answer any fifteen questions.

ii) Each question carries three marks.

 $15 \times 3 = 45$

- 31. What is known as Hypoglycemia?
- 32. What is called teratogenic disorder?
- 33. What is Pleurisy?
- 34. How is coronary angioplasty done?
- 35. What is corpus albicans?
- 36. What are the two types of retinopathy?
- 37. Define Tubectomy.
- 38. What is called Transduction?
- 39. What are haptens?
- 40. Write any two symptoms of Thalassemia.
- 41. What is 'Gene Therapy'? Mention its two types.
- 42. Mention any two advantages of 'Solar energy'.
- 43. Mention any two control measures of the disease Anthrax.
- 44. What is 'artificial Pacemaker'? What is its purpose?
- 45. Mention any two breeds of indigenous fowls and their places of occurrence.
- 46. What are three stages of Sericulture?
- 47. What is Sericin?
- 48. Define Hardy-Weinberg's law.
- 49. What is larvivorous fish culture?
- 50. Define metahaline culture.

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PART - III

Note: i) Answer any seven questions including Question No. **56** which is compulsory.

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ii) Each question carries five marks.

 $7 \times 5 = 35$

- 51. Describe the origin and conduction of heart-beat with a neat diagram.
- 52. Write a short note on the causes and symptoms of tuberculosis.
- 53. Give a brief account of the life cycle of Schistosoma haematobium.
- 54. Write a note on control and preventive measures of AIDS.
- 55. What are the symptoms of graft rejection?
- 56. List out the effects of global warming.
- 57. Write the various measures to eradicate poverty in human society.
- 58. Write a note on any one of the draught breeds of cattle.
- 59. Draw and label normal ECG and write any one point about each wave.
- 60. Briefly describe 'Sewal-Wright effect'.
- 61. Give an account of bionomics of Rohu.
- 62. Explain composite fish culture.

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PART - IV

Note: i) Answer any four questions.

ii) Each question carries 10 marks.

 $4 \times 10 = 40$

- 63. Write notes on the following disorders connected to the digestive system:
 - a) Peptic ulcer
 - b) Hernia.
- 64. Describe the process of urine formation in man.
- 65. Write an essay on focussing mechanism in the human eye. Add a note on eye-care.
- 66. Write an essay on pathogenicity of micro-organisms and infections.
- 67. Define cloning. Illustrate the cloning of sheep mechanism.
- 68. Explain in detail the management of hazardous waste.
- 69. Explain any two contagious diseases and two non-contagious diseases found in cattle. Mention about their prevention.
- 70. Explain the physico-chemical and biological factors for Pond fish culture.