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Part III — ZOOLOGY

			(En	glish Ve	rsion)
Tim	e All	owed: 3 Ho		S	[Maximum Marks : 150
				PART -	ı
		Note: i)	All the questio	ns are to	be answered.
		ii)	Each question	carries o	one mark.
		iii)	Choose and w	rite the c	orrect answers in the answer-book.
					$30\times1=30$
1.	The	granulation	of tissues aroun	d the site	e of fracture is called
	a)	Nodule		b)	Papilla
	c)	Rudiment		d)	Callus.
2.	The	opacity in th	ne lens of the ey	e is the c	haracteristic feature of
	a)	Presbyopia	10	b)	Retinopathy
	c)	Myopia	City	d)	Cataract.
3.	Sto	nes with blac	lder and lower u	ıreter car	be crushed and removed by
	a)	Cystoscopy		b)	Kidney transplantation
	c)	Peritonial di	ialysis	d)	Haemodialysis.
4.	An	important ro	ole in unifying t	he emoti	onal responses of two sides of brain is
	play	yed by	•		
	a)	Corpus calle	osum	b)	Anterior commissure
	c)	Hippocampa	al commissure	d)	Optic chiasma.
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ο.	1116	: normone produced by Leydig Co	:115 15	
	a)	Estrogen	b)	Progesterone
	c)	Relaxin	d)	Testosterone.
6.	The call		can a	also be best done during the cell division
	can	ed		
	a)	Meiosis	b)	Amitosis
	c)	Mitosis	d)	Cytosis.
7.	The	e scrutiny of established matir	ngs t	o obtain information about the genic
	cha	racters or traits is called	٠	:.0.
	a)	Pedigree chart	b)	Pedigree analysis
	c)	Genic analysis	d)	Karyotyping.
8.	Wh	ich one of the following can gi	ive a	skeleton model of a protein from the
	resu	ults on its atomic details?	- \	
	a)	Karyotyping	b)	Idiogram
	c)	X-ray graphy	d)	X-ray crystallography.
9.	The	number of immigrations and	emigr	ations as well as births and deaths is
	call	ed	٠	
	a)	total growth rate	b)	growth rate
	c)	zero population growth rate	d)	birth rate.
10.	The	important cattle without any hu	mp is	
	a)	Bos ruminant	b)	Bos indicus
	c)	Bos taurus	d)	Bos burbalis.
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11.	1106	e lactor that enfiches the gene po	or w	in new modified genes is
	a)	mutation	b)	somatic variation
	c)	decrease in chromosome	d)	increase in cytoplasm.
12.	The	e second law of Lamarck is based	i on	
	a)	inheritance of acquired charact	ers	
	b)	use and disuse characters		
	c)	the need of an organ		
	- d)	gradual change to increase in s	ize.	
13.	Ind	uced breeding is performed by a	tech	nique called
	a)	Homogeniser	b)	Centrifugation
	c)	Hypophystation	d)	Dehydration.
14.	_Blu	ish mucous coatings on the skin	, fin a	and gills are the symptoms of
	a)	Costiasis	b)	Viral haemorrhagic septicaemia
	c)	Dropsy	d)	Gill rot.
15.	The	e accessory respiratory organs, in	addi	ition to gills are found in
	a)	Murrels	b)	Channa marulius
	c)	Tilapia	d)	Cat fish.
16.	The	rejuvenation of tissue is maintai	ned l	by
	a)	Vitamin K	b)	Vitamin E
	c)	Vitamin D	d)	Vitamin B.
17.	Got	it is a common name of one of th	ie art	thritis given below:
	a)	Metabolic	b)	Rheumatic
	c)	Infectious	d)	Osteoarthritis.
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10.	1901	neuric exercise is best for		
	a)	protein synthesis	b)	lipid digestion
	c)	calcium absorption	d)	glycogen storing.
19.	The	narrowing of the arteries caused	d by	plaque on their inner linings will lead to
	the	disease called		
	a)	Myocardia	b)	Heart block
	c)	Atherosclerosis	d)	Angina pectoris.
20.	The	main cause of Mitral stenosis is		CO
	a) _	Rheumatic fever	b)	Viral fever
	c)	Pleurisy	d)	Pneumonia.
21.	The	photosensitive pigment present	in th	e outer segment of the rod is
	a)	Haemoglobin	b) •	Carotenoid
	c)	Rhodopsin	d)	Scotopsin.
22.	Plag	gue is caused by the bacterial sp	ecies	called
	a)	Yersinia Pestis	b)	Vibrio Cholerae
	c)	Salmonella choleraesuis	d)	Neisseria gonorrhoeae.
23.	Org	an transplantation from pig to m	an is	an example for
	a)	Autograft	b)	Allograft
	c)	Isograft	d)	Xenograft.
24.	Whi	ich of the following is antigen pro	esent	ing cells ?
	a)	Dendric cells	b)	Tonsils
	c)	Phagocytes	d)	Erythrocytes.

25 .	In n	man, thymus reaches to its maximum size in				
	a)	a few months before birth				
	b)	a few months after birth				
	c)	a few weeks after birth				
	d)	just prior to birth.				
26.	Whi	ich are the first kind exotic b	reeds	s of cattle introduced in India about		
	90 3	years back?				
	a)	European breed	b)	Australian breed		
	c)	American breed	d)	English breed.		
27.	The	female fish which exhibits bucca	al inc	ubation is		
	a)	Murrels	b)	Channa		
	c)	Cat fish	d)	Tilapia mosambica.		
28.	The	record of the electric potential of	hang	ges in the heart during the cardiac cycle		
	is c	alled				
	a)	Stethoscope	b)	Sphygmomanometer		
	c)	Haemocytometer	d)	Electrocardiogram.		
29.	The	The person who suffers from jaundice must undergo the following test:				
	a)	C. T. Scan	b)	Blood pressure test		
	c)	Urine analysis	d)	Counting of RBC.		
30.	The	caterpillar of Bombyx mori prod	uces			
	a)	Tasar silk	b)	Eri silk		
	c)	Munga silk	d)	Mulberry silk.		
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PART - II

Note: i) Answer any fifteen questions.

ii) Each question carries three marks.

 $15 \times 3 = 45$

- 31. Mention any two causes of obesity.
- 32. Write any two symptoms of liver cirrhosis.
- 33. What is Hering-Breuer reflex?
- 34. What is angiogram? Mention its use.
- 35. What is amnesia?
- 36. How will you identify the Grave's disease?
- 37. Define Vasectomy.
- 38. What is transduction?
- 39. Differentiate between cell mediated and humoral immunities.
- 40. Write any two uses of Karyotyping.
- 41. What is Bio-informatics?
- 42. List out any two names of bioreserves of India.
- 43. Mention any two symptoms of Cowpox.
- 44. Suggest any two situations in which a doctor might advise a C. T. Scan.
- 45. How is urine-glucose tested?
- 46. Mention any two types of silk.
- 47. What is Royal jelly?
- 48. What is meant by 'Survival of the fittest'?
- 49. What is composite fish culture? Give an example.
- 50. Name any two commercially important sea-weeds cultured in Indian waters.

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. Draw and label the human spermatozoon structure.
- 52. Describe the structure of sarcomere.
- 53. Mention any five symptoms of AIDS.
- 54. Give a brief account of life cycle of schistosoma haematobium.
- 55. Give an account of the structure of immunoglobulin with neat diagram.
- 56. What are the effects of global warming? Mention any five.
- 57. State any five measures to eradicate poverty.
- 58. Write about any two contagious diseases found in cattle. Mention their prevention also.
- 59. Describe the structure of haemocytometer.
- 60. Explain Hardy-Weinberg Law.
- 61. Classify the types of ponds on the basis of their utilization.
- 62. Write a note on edible Oyster and its economic importance.

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PART - IV

Note: i) Answer any four questions.

ii) Each question carries 10 marks.

 $4 \times 10 = 40$

- 63. Explain the digestive process taking place in our small intestine.
- 64. Describe the composition of blood.
- 65. Pituitary gland is a Master gland. Discuss.
- 66. Describe the life cycle of Taenia solium with neat diagrams.
- 67. Write an essay on protein structure, protein model and its uses.
- 68. Write an essay on Fresh Water Management explaining any five ways.
- 69. Write an essay on cattle wealth in India.

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70. Describe the various types of Mariculture.