Hall Ticket Number:

Booklet Code: A

Department of Animal Biology M. Sc. Animal Biology & Biotechnology

ENTRANCE EXAMINATION June 2017

Time: 2 hours Maximum Marks: 100

INSTRUCTIONS: PLEASE READ BEFORE ANSWERING!

- > Enter your hall ticket number on this sheet and the answer (OMR) sheet.
- Answers have to be marked on the OMR answer sheet following the instructions provided there upon. Make sure that you have clearly mentioned the Booklet Code (A or B or C) on your OMR sheet.
- > Hand over OMR answer sheet at the end of the examination.
- > All questions carry one mark each. Answer all, or as many as you can.
- > 0.33 mark will be deducted for every wrong answer.
- > There are a total of 11 pages in this question paper. Answer sheet (OMR) will be provided separately. Check this before you start answering.
- > The question paper consists of Part A and Part B. The marks obtained in Part A will be taken in consideration in case of a tie i.e., when more than one student gets equal marks, to prepare the merit list.

PART "A"

1. Or	ne of the following group of a	nimal shows viv	viparity
A)	Annelids	B)	Arachinids
C)	Echinoderms	D)	Molluses
2. W	hich of the following is cause	d by trinucleot	ide repeat expansion?
	Cystic fibrosis	B)	Duchenne muscular dystrophy
C)	Huntington's disease	D)	Down's syndrome
3. On	e of the following is a living f	ossil	
A)	Dalbergia sissoo	B)	Pinus longifolia
C)	Mirabilis jalapa	D)	Ginko bioloba
4. W	hich of the following best exp	lains the proces	ss of evolution?
A)	Natural selection	B)	Horizontal gene transfer
Ć)	Comparative genomics	D)	Darwinism

			•
5. A r	novel pentose present in the heart musc	ele	•
A)	Xylulose	B)	Lyxose
C)	Arabinose	D)	Xylose
6. The	e male sex hormone testosterone is secr	eted l	by
	Crypt cells	B)	Sertoli cells
C)	Leydig cells	D)	Liberkiihn cells
7. Wh	ich of the following is not an electroph	ile?	
	NH ₃	B)	Br^{+}
C)	AlCl ₃	D)	NO_2^+
comp which	letely recessive allele. h. Assuming the	e pop prop	people has a genetic disorder caused by a ulation is in Hardy-Weinberg equilibrium, ortion of individuals who are carriers of b
	380/400	B)	19/400
,	20/400	D)	38/400
9. The	e main atmospheric layer near the sur	face o	f earth is called
A)	Trophosphere	B)	Mesosphere
	Ionosphere	D)	Stratosphere
10. T	The thermal decomposition of alkanes i	n the	absence of air is called
	Combustion	B)	Oxidation
C)	Cracking	D)	Hydrogenation
11. block	Mannose 6-phosphate-dependent pa	athwa	y for routing lysosomal enzymes can be
A)	Tunicamycin	B)	Colchicine
C)	Vinblastin	D)	Phalloidin
12. T	rophic levels are formed by		
A)	Only plants	B)	Only animals
C)	Only bacteria	D)	Organisms linked in food chain
13. G	Senetic variations can be introduced in	bacte	eria by all the methods <u>except</u>
A)	Transduction	B)	Transformation
C)	Mutation	D)	DNA replication
14. T	The first drug produced by using rDNA	A tech	nology is
A)	Streptokinase	B)	Tissue plasminogen activator
C)	Insulin	D)	Penicillin

	15. Which of the following is a planar molecule?				
A)	Formaldehyde	B)	Acetone		
C)	Formic acid	D)	Acetic acid		
	calization of mRNA in cells can be don				
A)	In situ hybridisation	B)	Dot blot hybridisation		
C)	Immunofluoescence assay	D)	Northern hybridisation		
17. In	heritance of skin color in humans is an				
A)	Mendelian inheritance	B)	Monogenic inheritance		
C)	Polygenic inheritance	D)	Complementary genes		
18. G	olden rice is a transgenic crop with an i	mpro	oved trait of		
	Insect resistance	B)	High vitamin A content		
C)	High protein content	D)	High lysine content		
19. W	hich of the following statements is false	abo	ut enantiomers?		
A)	Rotate plane polarised light	B)	Are superimposable mirror images		
C)	Are nonsuperimposable mirror images	D)	Have the same melting point		
	he one horned rhoniceros is specific to				
A)	Bandipur	B)	Kaziranga		
C)	Corbette park	D)	Bharatpur		
21. Conjugate base of HO ₂ - is					
A)	O_2	B)	H_2O_2		
C)	O_2^{2-}	D)	${ m O_2}^+$		
22. A	species is defined as endemic if they ar	e			
A)	Rare	B)	Localised to specific region		
C)	Cosmopolitan in distribution	D)	Are critically endangered		
23. R	Ratio of radius of atom to that of nucleu	s is o	f the order of		
A)	10 ⁻¹⁰	B)	10-15		
C)	10^5	D)	10 ⁻⁵		
24. A	24. A disease which is not caused by fungi-				
	Pertusis	B)	Dermatitis		
C)	Mycosis	D)	Candidiasis		
25.	Pluripotent embryonic stem cells are	deriv	ed from one of the following stages during		
	yonic development				
A)	Zygote	B)	Morula		
C)	Blastula	D)	Gastrula		

PART "B"

	terferons (IFNs) are	B)	Antiviral proteins		
A)	Antibacterial proteins Antifungal proteins	D)	Bacteriostatic proteins		
,	•	,	•		
	Which of the following structure is absen	at in (Gram-positive bacteria?		
A)	Cell wall	B)	Outer membrane		
C)	Lipoteichoic acid	D)	Peptidoglycan		
28. T	The molar volume of Helium is 8.21L at				
A)		B)	127°C, 4 atm		
C)	27°C, 0.25 atm	D)	127°C, 2 atm		
29. If	the molar amount of G in a DNA same	le is 2	20%, then the molar amount of T would be		
A)	20%	B)	30%		
C)	60%	D)	80%		
30 T	he contrasting pairs of factors in Mend	elian	crosses are called as		
A)	Alloloci	B)	Multiple alleles		
C)	Allelomorphs	D)	Paramorphs		
31 A	color blind female is often rare becaus	e she	will be born only when		
A)	Her mother and maternal	B)	Her father and maternal grandfather		
)	grandfather are color blind	,	are color blind		
C)	Her father has normal vision and	D)	Her parents have normal vision but		
	mother is color blind		grand parents are color blind		
32. H	lematopoietic stem cells are considered	as			
A)	Totipotent	B)	Multipotent		
C)	Pluripotent	D)	Precursor		
33.	Which has maximum equilibrium mo	olarit	y of sodium ion in 0.1M aqueous solution		
(assu	me 100% ionisation)?				
A)	Sodium oxalate	B)	Sodium orthophosphate		
C)	Sodium metaphosphate	D)	Sodium bicarbonate		
34.	34. The light yellowish color of cow's milk is due to presence of				
A)	Carotene	B)	Curcumin		
C)	Riboflavin	D)	Bilirubin		

35. D	eep sea fishes are		
A)		B)	Endothermic homeotherms
C)	Ectothermic and heterotherms	D)	Endothermic heterotherms
36. A	genetically engineered microorganisn	ı wide	ely used in bioremediation of oil spills is
A)		B)	
C)	Pseudomonas	D)	Xanthomonas
37. M	yriapods consists of		
A)	Centipedes and millipedes	B)	Crayfishes and crabs
C)	Shrimps and lobsters	D)	Spiders and scorpions
38. A	alkenes are most soluble in one of the fo	ollowi	ng solvents
A)	Water	B)	Ethyl alcohol
C)	Ammonia	D)	Carbon tetrachloride
39. A	relationship between two species in wl	nich t	he individuals of one species adversely
affect	s the other while itself remaining unaf	fected	l is known as
A)	Commensalism	B)	Amensalism
C)	Mutalism	D)	Parasitism
40. W	hich of the following is not required for	or PC	R?
A)	DNA polymerase	B)	Dideoxy-dNTPs (ddNTPs)
C)	Primers	D)	Template DNA
41. T	he percentage of human loci that are h	eteroz	zygous
A)	2%	B)	5%
C)	37%	D)	55%
42. C	One of the following is the Brewer's yea	st	
A)	Saccharomyces ludwigi	<i>B)</i>	Saccharomyces cerevisiae
C)	Saccharomyces boulardii	D)	Saccharomyces pastorianus
43. F	ats and oils are		
A)	Monoesters of glycerol	B)	Diesters of glycerol
C)	Triesters of glycerol	D)	Diesters of glycol
44.]	In one of the following orders of insects	s, the	hind pair of wing is modified into halteres
A)	Lepidoptera	B)	Orthoptera
C)	Hemiptera	D)	Diptera

45. Al	l individuals of a species inhabiting a gi	ven a	rea is called as
	Biome	B)	Population
C)	Ecosystem	D)	Community
46. W	hich is not amphoteric?		
A)	HSO ₄	B)	$H_2PO_2^-$
C)	H ₂ O	D)	NH ₃
47. Fi	ne organic or inorganic particles susper	nded	in air is known as
A)	Aerosol	B)	Gaseous pollutant
C)	Particulate pollutant	D)	Smog
48. O	zonolysis of 2-butyne gives		
A)	Formic acid	B)	Propionic acid
C)	Acetic acid	D)	Butanoic acid
49. Aı	mphioxus belongs to the group of		
A)	Urochordates	B)	Amphibia
C)	Cephalochordates	D)	Reptilia
50. V	Which of the following can be used to sta	in lij	pid inclusions in bacteria?
A)	Sudan black	B)	Methylene blue
C)	Trypan blue	D)	Toluidine blue
51. C	Cleavage asynchrony is often seen durin	g dev	relopment of fertilized eggs of
A)	Mice	B)	Sea urchin
Ć)	Snake	D)	Frog
52. T	he outer most covering of the brain is		
	Choroid	B)	Arachnoid
C)	Pia mater	D)	Dura mater
53. H	lardness in a given water sample is 300	ppm	CaCO ₃ . What would be its molarity?
A)	0.300M	B)	0.030M
C)	0.003M	D)	0.0015M
54. V	When a single gene influences more than	one	trait, it is called as
A)	Epistatsis	B)	Pleiotrophy
C)	Pseudodominance	D)	Co-dominance
55. I	argest number of <i>Eucalyptus</i> plant spec	cies a	re found in
A)	Australia	B)	India
C)	Burma	D)	Newzealand
- /			

C) Mitochondria D) Peroxisomes 57. The bond angle associated with the hybrid orbitals of a carbon involved in a triple bond is A) 180° B) 120° C) 109° D) 45° 58. One of the following is the major pathway of ammonia detoxification A) 2-Oxoglutarate to glutamate to B) 2-Oxoglutarate to aspartate to alanine glutamine C) Oxaloacetate to aspartate to alanine B) Landsteiner C) Armauer Hansen D) Emil von Behring 60. CD8+ T cells differentiate into, that are capable of recognizing and killing infected cells A) T helper cells B) Cytotoxic cells C) Dendritic cells D) Natural Killer cells 61. One of the following drugs is effective against Mycobaterium tuberclosis A) Amoxycillin B) Methycillin C) Isoniazid D) Erythromycin 62. 2,2-Dichloropropane reacts with aqueous KOH to give A) 2,2-Propanediol B) Propanol C) Acetone D) n-Propyl alcohol 63. Who established DNA and not protein as the genetic material? A) Hershley and Chase B) Messelson and Stahl C) Kohler and Milstein D) Barbara McClintock 64. The deficiency of one of the following enzymes causes Albinism A) Catalase B) Fructokinase C) Xanthine oxidase D) Tyrosinase 65. Viable material of endangered plant species can be preserved through A) Gene bank B) Gene library	56. T A)	he cell organelle involved in the initiat Endoplasmic reticulum	ion of B)	the intrinsic pathway of apoptosis is Lysosomes
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A) Gene bank B) Gene library	65. V	iable material of endangered plant spe	rcies c	an be preserved through
		<u> </u>		•
_ , ,	C)	Gene pool	D)	Herbarium

A) Formic acid C) Acetic acid D) Trichloroacetic acid C) Acetic acid D) Trifluoroacetic acid To acid Trifluoroacetic acid Toutain Scotoptin Scotoptin 68. In a population of 1X10 ⁸ bacterial cells, the number of cells remaining after 50% killing will be scotophy by 0.2X10 ⁸ 69. Blue green algae are A) Photoautotrophs B) Chemoautotrophs Chemoheterotrophs Chemohet	66. O	ne of the following is the strongest acid			
67. The pigment which helps some mammals to clearly see during night is A) Iodopsin B) Guanin C) Retinene D) Scotoptin 68. In a population of 1X10 ⁸ bacterial cells, the number of cells remaining after 50% killing will be A) 1X10 ⁴ B) 0.5X10 ⁸ C) 0.5X10 ⁴ B) 0.5X10 ⁸ 69. Blue green algae are A) Photoautotrophs B) Chemoautotrophs C) Photoheterotrophs D) Chemoheterotrophs 70. One of the following samples contain 2X10 ²³ atoms A) 8 g O ₂ B) 3 g Be C) 8 g C D) 12 g He 71. Graft rejection is due to activation of A) Host T cells, which recognize graft cells as foreign C) Host macrophages, which kill graft cells as foreign C) Host macrophages, which kill graft cells C) Host macrophages, which kill graft cells C) Leukaemia D) Host dendritic cells, which kill graft cells C) Leukaemia B) Sickle cell anemia C) Leukaemia D) Pernicious anemia 73. An example of achiral amino acid is A) Alanine C) Glycine B) Glutamine C) Tryptophan 74. The plant used for preparing green manure in India is A) Cotton B) Corn	A)	Formic acid			
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74. The plant used for preparing green manure in India is A) Cotton B) Corn	A)	Alanine	B)		
A) Cotton B) Corn	C)	Glycine	D)	Tryptophan	
A) Cotton B) Corn	74. T	he plant used for preparing green manu	ıre in	India is	
C) Sunhemp D) Sunflower					
	C)	Sunhemp	D)	Sunflower	

75. K	etones react with Grignard reagents t	to forn	n an addition product which on hydrolysis
gives		D)	Turiom alanhal
•	Primary alcohol	B)	Tertiary alcohol
C)	Secondary alcohol	D)	Ketal
76. G	ene targeting is primarily done on		
A)	A sperm cell	B)	An egg cell
C)	A fertilised ovum	D)	Early embryonic cells
77. T	The type of bond existing in trehalose,	a disac	charide present in fungi and insects is
	$\alpha(1\rightarrow 1)$	B)	$\beta(1\rightarrow 4)$
C)	$\alpha(1\rightarrow 4)$	D)	$\alpha(1\rightarrow 2)$
78. V	Which has maximum entropy of vapou	risatio	n?
A)	a a sa a a a	B)	Benzene (liquid)
C)	Toulene (liquid)	D)	CO_2 (gas)
79. F	Erythroblastosis fetalis is caused due to)	
A)		B)	Rh and ABO incompatibility
C)	Epigenetic modifications	D)	Hemophilia
80. I	n the Krebs cycle, citrate loses two o	f its si	ix carbons as CO ₂ during its conversion t vo carbons are lost to give rise to CO ₂ ?
	C_1 and C_2	B)	C ₁ and C ₄
•	C ₁ and C ₆	•	C ₄ and C ₆
Q1 <i>(</i>	One of the following is not a cytoplasm	ic org	anelle of the cell
	Endoplasmic reticulum	B)	Mitochondria
C)		D)	Nucleolus
82. 3	Which of the following compounds wil	l give :	an idoform test?
A)	Benzoic acid	B)	Ethanol
C)		D)	Methanol
83. 7	The parasite which has only one host-		
A)		B)	Plasmodium vivax
C)		D)	Entamoeba histolytica
84.	Acid rains are caused by		
A)	_	B)	Oxides of nitrogen
C)		D)	Oxides of carbon

85. The process of phagocytosis was discovered by				
A)	Robert Koch	B)	Ilya Mechnikov	
C)	Louis Pasteur	D)	Edward Jenner	
	nomial nomenclature was proposed by			
A)	Carlo Allioni	B)	Carl Linnaeus	
C)	Alexander Hamilton	D)	Robert Almer Harper	
87. W	hich of the following compounds will be	e easi	ily oxidized?	
A)	Primary alcohol	B)	Secondary alcohol	
C)	Tertiary alcohol	D)	Aldehyde	
88. T	ne gland with both exocrine and endocr	ine f	unctions is	
A)	Thyroid	B)	Pancreas	
C)	Mammary gland	D)	Pituitary	
89.	After intense exercise, the lactate prod	uced	in skeletal muscles is transported to live	
	e it is converted into glucose. These reac			
A)	Gluconeogenesis	B)	HMP shunt	
C)	Kelvin cycle	D)	Cori cycle	
90.	The rate of chemical reaction generall	y inc	reases rapidly even for small temperatur	
	ase because of rapid increase in	•	*	
A)	Collision frequency	B)	Fraction of molecules with energy in	
<i>a</i>	A stimution on the	D)	excess of the activation energy	
C)	Activation energy	D)	Average kinetic energy of the molecule	
91. V	Vell defined acrosome is not found in th	e spe	ermatozoa of	
	Frog	B)	Fish	
C)	Snake	D)	Birds	
92. N	umber of (OH)- ions in 1 ml solution of	nH=	-13 is	
A)	1X10 ⁻¹³	B)	6X10 ⁷	
C)	6X10 ¹³	D)	6.02×10^{19}	
93 P	ytalin is secreted by		•	
	Pancreas	B)	Stomach	
,	Liver	D)	Salivary glands	
-,		-,		
	Chronic exposure to arsenic causes			
A)		B)	Black foot disease	
C)	Blue baby syndrome	D)	Night blindness	

95. Cy	yclic ethers with three membered rings	are c	called
A)	Lactones	B)	Oxiranes
C)	Alkoxides	D)	Epoxy resins
96. T	he major pollutant from automobile ex	haus	t is
A)	NO	B)	CO
C)	SO_2	D)	Soot
97. H	igher rate of photosynthesis occurs in		
A)	Red light	B)	Blue light
C)	White light	D)	Yellow light
98. S	elect the incorrect statement		
A)	There is no change in the concentration of the reactants and products at equilibrium	B)	Equilibrium is always dynamic
C)	Equilibrium can be approached from either of the sides	D)	Catalyst can alter the state of equilibrium
99. P	Pepsin is an example of		_
A)	Hormone	B)	Enzyme
C)	Vitamin	D)	Mineral
100.	The process by which oxygen passes fro	m lu	ng alveoli into blood capillaries is
A)	Diffusion	B)	Osmosis
C)	Active transport	D)	Passive transport
For	rough work		