Department of Animal Sciences

ENTRANCE EXAMINATION, June 2012 M.Sc. Animal Biotechnology

Time: 2 hours

Maximum Marks: 100

INSTRUCTIONS: PLEASE READ BEFORE ANSWERING!

- 1. Enter your hall ticket number on this sheet and the (OMR) sheet.
- 2. Answers have to be marked on the OMR answer sheet following the instruction provided there upon.
- 3. Hand over both the question paper booklet and OMR answer sheet at the end of the examination.
- 4. All questions carry one mark each. Answer all, or as many as you can.
- 5. <u>0.33 mark will be deducted for every wrong answer</u>
- 6. There are total of 12 pages in this question paper. Answer (OMR) sheet will be provided separately. Check this before you start answering.
- 7. The question paper consists of part "A" and part "B". The marks obtained in Part "A" will be taken in consideration in case of tie i.e., when more than one student gets equal marks, to prepare the merit list.

PART "A"

1. Pancreatic lipase acts upon				
	A)	Glycogen	B)	Triglycerides -
	C)	Disaccharides	D)	Polypeptides
2.	The	e following phenomenon is an exam	nple	of Mendelian inheritance
<u> </u>	A)	Imprinting	B)	Obesity
	C)	Metastasis	D)	Huntington chorea
3. Plants producing spore bearing seed without fruit and well developed vascular structure are				
1	4)	Pteridophyta	B)	Gymnosperm
	<u>C) </u>	Angiosperm	D)	Bryophyta
4. How many haploid cells are formed after two rounds of mitosis and one round of meiosis respectively? A) 4,4 B) 8.4				
+			B)	8,4
	-/	0,4	D)	8,0

5. E	Base hydrolysis of triglycerides is k	nown	as
Α		B)	Acidification
С) Esterification	D)	Saponification
6. N	Nitrifying bacteria are example of		
Α		B)	Photoheterotrophs
С) Chemoautotrophs	D)	Chemoheterotrophs
kno	wn as	hrom on of	osome affects the likelihood of anothe the chromosome, the phenomenon is
A		B)	Chromosome linkage
C) Interference	D)	Chromosome conformation capture
8. V boil	ing points:		series is ranked according to increasing
	ethanethiol	B)	Ethane, ethanol, diethyl ether, ethanethiol
(<u>C)</u>	Ethane, diethyl ether, ethanethiol, ethanol	D)	Diethyl ether, ethane, ethanethiol, ethanol
rela A)	Release of acetylcholine at motor	B)	false with reference to contraction and Increased Ca ⁺⁺ conductance at the
C)	end plate Generation of action potential in muscle fibers	D)	end plate membrane Release of Ca ⁺⁺ from sarcoplasmic reticulum
10. ioniz	What would be the pH of 0.02 M so zation. $K_{a1} = 7 \times 10^{-5}$, $K_{a2} = 3 \times 10^{-6}$?	uccini	c acid solution taking into account both
<u>A)</u>	2.9	B)	3.9
C)	4.9	D)	5.9
11. /	A living mechanical tissue is		
A)	Parenchyma	B)	Collenchyma
C)	Chlorenchyma	D)	Scirenchyma
12. amin	Pepsin of gastric juice (pH 1.5) hoo acids must be present in large nu	as a Imber	pT of about 1 Which are
A)	Arg and Lys	B)	Asp and Gly
C)	Ser and Thr	D)	Gly and Ala
13. /	A bacterial toxin that causes cram	ıps, d	liarrhea and nausea in gastric tract is
A)	Exotoxin	B)	Endotoxin
(C)	Immunotoxin		

Y-14

14. For which of the following mixt	ures would steam distillation be the most
appropriate method of separation?	
A) Diethyl ether and water	B) Ethyl alcohol and water
C) Aniline and sodium chloride	D) Methanol and water
15. Allopurinol is used to treat gout. It	acts by inhibiting
A) Xanthine oxidase	B) Hypoxanthine-guanine
	phosphoribosyl transferase
C) Adenosine deaminase	D) Urate oxidase
complex which has an absorption of 0.3	
A) 0.633%	B) 6.33%
C) 0.0633%	D) 63.3%
A) Inhibition C) Repression	B) Antibiosis D) Biolistics
18. The formation of acetyl coenzyme	A from pyruvic acid is the result of its
A) Reduction	B) Dehydration
C) Carboxylation	D) Oxidative decarboxylation
10 Which of the Call	
A) They have an overall positive	
A) They have an overall positive charge	B) They have a lone pair of electron
C) They have an unpaired electron	D) They have empty orbitals
20. The placenta in humans is	
A) Zonary placenta with eccentric implantation	B) Zonary placenta with superficial implantation
C) Discoidal placenta with interstitial implantation	D) Diffuse placenta with eccentric implantation
21. Which one of the following has the	maximum number of unpaired electrons?
A) Mg ²⁺ C) V ³⁺	B) Ti ³⁺
C) V ³⁺	D) Fe ²⁺
pnospnoenoi pyruvate is	he conversion of 2-phosphoglycerate to
A) Enolase	B) Phosphofructokinase
C) Pyruvate decarboxylase	D) Pyruvate kinase

23. \	23. Which of the following statement is correct with reference to B form of DNA?				
A)	Consists of 10 minor and 10 major	B)	Consists of 1 minor and 10 major		
	grooves per 100bp of DNA		grooves per 100bp of DNA		
C)		D)	Consists of 1 minor and 1 major		
	grooves per 100bp of DNA		groove per 100bp of DNA		
24. \	Which of the following is most resis	tant	to oxidation?		
A)	CH₃CH₂OH	B)	(CH ₃) ₂ CHOH		
C)	HOCH₂CH₂OH	D)	(CH₃)₃COH		
25. (Calculate the axial length of an ∞-he	aliv c	ontaining 78 amino acide		
(A)	117 °A	B)	1.17 °A		
C)	11.7 °A	D)	0.117 °A		
	DA	RT '	(D)		
	ra ·	W.F.	D··		
26. 1	The percentage of human genome	that o	odes for protein is		
A)	0-0.5%	В)	0.5-1%		
C)	1-1.5%	D)	1.5-2%		
27.	One mole of potassium chlorate	e is uct t	thermally decomposed and excess of low many moles of aluminium oxide are		
form		uct. I	iow many moles of aluminum oxide are		
A)	1	B)	2		
(C)	1.5	D)	3		
<u> 28. 1</u>	he method of vegetative culture is	calle	d		
<u>A)</u>	Pomology	B)	Olericulture		
C)	Sylviculture	D)	Arboriculture		
29. 0	Oxygen carrying capacity of chloroc	ruori	n in the respiratory pigment of Annelids		
is as	sociated with metallic ion		in the respiratory pignicite of Afficials		
A)	Fe	B)	Cu		
C)	Zn	D)	Ag		
20	The file and the second				
30. calle		tnat	can be stained in interphase nuclei is		
(A)	Solenoid	B)	Extended nucleosome		
(c)	Looped Solenoid	D)	Chromatin		

Booklet case: A

31. Hexokinase phosphorylates glucose.	. The phosphorylation process				
A) Prevents escape of glucose from the cell	B) Promotes membrane transport				
C) Accelerates its conversion into fructose 6 phosphate	D) Inhibits the conversion of glucose 6 phosphate to fructose 6 phosphate				
32. Which of the following type of bond stabilizing the three dimensional folding	ds/interactions contribute the least towards				
A) Hydrophobic interactions	B) Hydrogen bonds				
C) Disulphide bonds	D) Ester bonds				
33. The characteristic reaction of carbon	xylic acids is				
A) Electrophilic addition	B) Electrophilic substitution				
C) Nucleophilic addition	D) Nucleophilic substitution				
34. Cellular proteins tagged with ubi following organelles	iquitin undergo degradation in one of the				
A) Phagosomes	B) Proteosomes				
C) Endosomes	D) Lysosomes				
and soybean oil?	saturated fatty acid present in corn, peanut				
A) Timnodonic	B) Elaidic				
C) Linoleic	D) ∝-Linolenic				
36. The hormone for regulation of calci	ium and phosphate homeostasis is secreted				
A) Pituitary gland	B) Parathyroid gland				
C) Thymus gland	D) Thyroid gland				
37. A plant enzyme produced in response to infection by fungal pathogen which hydrolyses some components of the fungal cell wall is					
A) Chitinase	B) β-1,3 Glucanase				
C) β-1,6 Glucanase	D) Cellulase				
38. The strain of yeast that is used in bee	er production is				
A) Pichia postoris	B) Saccharomyces cerevisiae				
C) Saccharomyces diastaticus	D) Saccharopolyspora erythraea				
39. Which of the histone is not a part of t	the nucleosome?				
A) H1	B) H2A				
C) H2B	D) H4				

40. Which of the following organism recombinant therapeutics?	m is not recommended for production of				
A) Saccharomyces cerevisiea	B) E.coli				
C) Pseudomonas aeruginosa	D) Pichia pastoris				
41. One of the following arthropods does not serve as a vector for transmission of Rickettsial disease					
A) Dermacentor	B) Pediculus				
C) Xenopsylla	D) Culiseta				
the brain to restore normal function du	versing blood brain barrier can be utilized by Iring hypoglycemia				
A) Sucrose	B) Lactose				
C) Mannose	D) Galactose				
43. The factor that does not influence the	he heat of reaction is				
A) The physical state of reactants and products	B) The temperature				
C) The pressure or volume	D) The method by which the final products are obtained				
44. Genetically induced dwarfness in pl	lants can be overcome by treatment with				
A) Ethylene	B) Auxin				
C) ABA	D) Gibberellins				
45. Isozymes are	:				
A) Enzymes catalyzing same reaction with different physical properties	B) Enzymes catalyzing same reaction with identical physical properties				
Enzymes catalyzing different	D) Enzymes catalyzing different				
reactions with identical physical properties	reaction with different physical properties				
46. A small protein that acts as an electronic	ron carrier				
A) Thrombin	B) Thionin				
C) Thioredoxin	D) Triazine				
47. Rhizopus multiplies by the production	on of				
A) Zoospores	B) Conidiospores				
C) Sporangiospores	D) Chlamydospores				
48. The triple helix model of DNA structure was proposed by					
A) Watson and Crick	B) Rosalind Franklin				
C) Linus Pauling	D) Erwin Chargaff				

49. Which of the following reactions can be used to prepare alkanes?						
A) Corey-House synthesis	B)	Williamson synthesis				
C) Friedel -Crafts reactions	D)	Feulgen synthesis				
50. Embryonic stem cells are						
A) Totipotent and have non-self renewal capacity	B)	Pluripotent and have self renewal capacity				
C) Multipotent and have non self renewal capacity	D)	Multipotent and have self renewal capacity				
51. Nephron is the structural and functional unit of kidney. Juxtamedullary nephrons are present in						
A) Mammals	B)	Reptiles				
C) Birds	D)	Fishes				
52. A sample of DNA purified from	Мусо	bacterium tuberclosis contains 15.1%				
A) 34.9%	B)	15.1%				
C) 68.1%	D)	3.49%				
	<u></u>	3.4370				
53. Lyme disease is caused by						
A) Yersinia pestis	B)	Borrelia burgdorferi				
C) Ehrlichia chaffeesis	D)	Anaplasma phagocytophilum				
54. Inter nucleosomal DNA is called						
A) Linker DNA	B)	Linear DNA				
C) Junk DNA						
C) Junk DNA D) Intergenic DNA						
55. Crown gall disease in plants is cause	d by	infection of				
A) Scale insect	В)	Agrobacterium				
C) Fusarium	D)	Rhizoctonia				
FC A constitution to the state of the state	· · · · · · · · · · · · · · · · · · ·					
56. A genetic mutation that changes specifying for another amino acid is	a co	don for one amino acid into a codon				
A) Frameshift mutation	B)	Missense mutation				
C) Nonsense mutation	D)	Point mutation				
57. Coenzyme pyridoxal phosphate is de	rive	d from vitamin				
A) C	B)	B1				
C) B6	D)	B2				
58. Homolytic fission of C-C bond leads t	o the	formation of				
A) Free radicals	B)	Carbonium ions				
C) Carbanions	D)	Carbanion and Carbonium ions				

1	59. Structures that have same evolutionary origin but differing with regard to structure and function are said to be					
Α) Analogous	B)	Homologous			
С) Heterologous	D)	Contiguous			
60.	Enzyme found in saliva of animals is	S				
Α) Patatin	B)	Ptyalin			
С) Pepsin	D)	Renin			
61. cell	61. The movement of masses of cells towards each other and their fusion into one cell mass is called					
A) Convergence	B)	Concrescence			
C) Epiauxesis	D)	Emboly			
62.	Which of the following is an inducer	of la	c operon?			
Α) Lactose	B)	Galactose			
C) Allolactose	D)	Glucose			
63.	An enzyme that selectively degrade	c cin	To stranded DNA is			
A		B)	Exonuclease			
C		D)	P1 nuclease			
	, 22.110010000	<u> </u>	FI Huclease			
64.	Total number of vertebra found in ve	erteb	ral column of human is			
A)) 18	B)	33			
C) 38	D)	42			
	The common name for Indian rose v		,			
A)		B)	Shorea			
[C)) Dalbergia	D)	Purpurea			
66. glud	copyranose ?	are p	ossible from D-galactopyranose and D-			
A)	10	B)	20			
(C)	5	D)	40			
67	Which are a CAL - CALL					
	Which one of the following is not a h					
A)		B)	Cytochrome P450			
[C)	Hemoglobin	D)	Bilirubin oxidase			
68.	68. In humans the rectus femoris muscle is found in					
A)		B)	Lower arm			
(C)	Thigh	D)	Elbow			

69. Humans can digest starch and monomeric glucose units. Starch can intestinal enzymes for	not be o	cellulose. Both of them contain the digested due to the specificities of the
A) ∝ 1→4 linkage	B)	β 1→4 linkage
C)	D)	β 1→6 linkage
correct order of this sequence is		esis occurs in a sequential manner. The
A) P700→Plastoquinone (PQ)→ Pheophy →CytB6→Plastocyanin(PC)→P680→F6 (FD)	∕tin (I errido	PE) B) P680→PQ→PE→CytB6→PC→P680- xin
C) $P680 \rightarrow PE \rightarrow PQ \rightarrow CytB6 \rightarrow PC \rightarrow P700 \rightarrow FE$)	D) P700→PE→PQ→CytB6→PC→P680-
71. Example of genomic imprinting is		
A) Prader-Willi syndrome	B)	Down syndrome
C) Klinefelter syndrome	D)	Turner syndrome
2. Which of the following is ketose?		
A) Glycerose	B)	Fructose
C) Ribose	D)	Glucose
	(D)	Giucose
A) α C) γ 4. The decline of reptiles and expansio	B) D)	δ
A) Mesozoic	B)	Paleozoic
C) Archaeozoic	D)	Coenozoic
	·	
5. Which of the following characteristic	cs fea	atures is typical for enantiomers?
A) Rotate ordinary light	B)	Have the same melting point
C) Are superimposable mirror images	D)	React with the optically active molecules at the same rate
6. The germ theory of disease was dev	elope	ed by
A) Koch	B)	Fleming
C) Van Leeuwenhoek	D)	Pasteur
7 Which of the following is not and	-10	
7. Which of the following is not a roder A) Mole rat	T	Powertning
	B)	Porcupine
C) Guinea pig	D)	Mangoose
8. In cold countries ethylene glycol is a	idded	to water in car radiators. This helps to
A) Reduce the viscosity	B)	Make water a better lubricant
0) 1		

79. An extra embryonic membrane ex development of amniotes is	ssenti	al for gas exchange during embryonic
A) Amnion	B)	Allantois
C) Chorion	D)	Yolksac
80. Which of the following sterilization	meth	ods does not kill endospores?
A) Autoclave	B)	Hot air sterilsation
C) Pasteurisation	D)	Dry air sterilisation
81. In glycolysis and citric acid cycl	le, th	e only dehydrogenase to use FAD as
A) Isocitrate dehydrogenase	B)	Succinate dehydrogenase
C) Pyruvate dehydrogenase	D)	Malate dehydrogenase
82. Myelin producing cells in the centra	al ner	vous system are
A) Oligodendrocytes	B)	Schwann cells
C) Astrocytes	D)	Ependymal cells
	<u> </u>	
83. Following properties will decrease	with i	increase in temperature except
A) Surface tension	B)	Viscosity
C) Density	D)	Vapour pressure
84. Which region is the most biological	lv dive	erse area on the planet?
A) Arctic tundra	B)	Tropical rain forest
C) Coniferous forest	D)	Prairie grassland
85. Relaxed plasmid is a		
A) Plasmid found in open circle form	B)	Plasmid found in Linear form
C) Low copy number plasmid	D)	High copy number plasmid
86. The free energy change, ΔG:		
A) Is directly proportional to the	B)	Is equal to zero at equilibrium
standard free energy change, ΔG^0		
C) Can only be calculated when the	D)	Is equal to -RT/nKeq
reactant and products are present at 1mol/L concentration		
at 211101/ 2 contactification		
87. During embryonic development (Hormone (AMH) performs the following	the A	nti-Mullerian Factor or Anti-Mullerian
A) Prevents formation of vas efferens and vas deferens	B)	Promotes formation of vas efferens and vas deferens
C) Prevents formation of oviducts and uterus	D)	Promotes formation of oviducts and uterus

Borklet Gode: A

A) An aldehyde C) An alcohol D) An alkene 89. Compared to herbivores, carnivores intestine is generally A) Longer B) More convulted D) About the same size 90. Which of the following ecosystems is called as "Taiga"? A) Boreal forest B) Littoral forest C) Tropical rain forest D) Tundra 91. Laron syndrome is due to an autosomal recessive disorder occurring in consanguineous families and affected individuals are resistant to A) Growth hormone B) Melatonin C) Prolactin D) Seratonin 92. A gas of pressure 5 atm is heated from 0°C to 546°C and simultaneously compressed to one-third of its original volume. Hence, final pressure is A) 10 atm B) 30 atm C) 45 atm D) 5 atm 93. Antibiotic puromycin inhibits protein synthesis by A) Preventing amino acyl tRNA to the A site of the ribosome A site of the ribosome A site of the ribosome Binding to 30S subunit of the ribosome and preventing the process of elongation 94. How many different aldohexose stereoisomer are possible excluding anomers? A) 24 B) 16 C) 8 95. An unicellular heterotroph has a nucleus, 70S ribosome but does not have golgi apparatus. Which one of the following taxonomic classification best suits the description A) Fungi C) Archezoa D) Animalia 96. A lake rich in nutrients and algal species is classified as A) Dystrophic C) Eutrophic D) Ectotrophic	88. The appearance of silver mirror in	Toller	's test indicates the presence of			
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A) Dystrophic B) Oligotrophic	C) Archezoa	D)	Animalia			
A) Dystrophic B) Oligotrophic						
- y - mgocopine						
C) EUUODNIC D) Fetotrophic		: 121				
O) Leconopine						

Book let cest: A

of all the following would be impeded except					
A)	Vitamin C	B)	Oleic acid		
C)	Cholesterol	D)	Vitamin A		
98.	Shingles is a disease caused by				
A)	Smallpox virus	B)	Chickenpox virus		
C)	Adenovirus	D)	Poliovirus		
99. I	t is possible to distinguish betwee	n opti	cal isomers		
<u>A)</u>	By using chemical test	B)	By mass spectrometry		
C)	By IR spectroscopy	D)	By polarimetry		
100.	Which is a part of blood buffer?				
A)	HCO ₃ , H ₂ CO ₃	B)	CO ₃ ² , HCO ₃		
C)	CH₃COOH, CH₃COO	D)	SO ₄ ²⁻ , HSO ₄		
For r	ough work				