Hall Ticket Number:

Booklet Code: A

W-13

ENTRANCE EXAMINATION 2020

M. Sc. Animal Biology and Biotechnology

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.
- > 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.

1. Gizzards are found in which group of animals

- A) Turtles and frogs
- C) Salamander and mammals
- B) Crocodiles, alligators and birds
- D) Toads, tortoise and snakes

2. Which of the following has the maximum number of unpaired electrons?

A)	Mg ²⁺		V ³⁺
C)	Fe ³⁺	D)	⁻ Ti ³⁺

3. Human placenta is derived from

- A) Inner cell mass of early blastocyst
- C) Endoderm

4. The pH of blood is

- A) 7.4
- C) 8

- B) Trophectoderm of early blastocyst
- D) Mesoderm
- B) 6.4D) 8.5

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5. Al	kaline hydrolysis of oils and fats is called	1	
A)	Saponification	B)	Fermentation
C)	Diazotisation	D)	Rancidification
6. Ha	plontic life cycle is seen in which one of	the fo	ollowing plants
	Funaria	B)	Fucus
C)	Marchantia	D)	Chlamydomonas
7. Pha	lloidin affects which of the following stru	ucture	
A)	Intermediate filaments	B)	Collagen fibers
C)	Microfilaments	D)	Microtubules
8. Try	psin is active in pH range		
A) .	4.5 to 5.5	B)	
C)	7.5 to 8.5	D)	2.5 to 3.5
9. The	e scientist Claude Bernard is known for h		
A)	Autophagy	B)	Homeostasis
C)	Cell-cell communication	D)	Hormonal feed back
10. Ra	andomness or disorder increases in the or	der	
A)	Gas→liquid→solid	B)	Gas→solid→liquid
C)	Solid→liquid→gas	D)	Liquid→solid→gas
11.]	The genome of Corona virus is		
A)	RNA, positive strand	B)	RNA, negative strand
C)	Diploid RNA	D)	Linear DNA
12. C	arbonyl chloride reacts with ammonium	to giv	e
	Acetone	B)	Urea
C)	Chloroform	D)	Acetamide
13. W	/hich of the following host is used for pro	oducii	ng commercial hepatitis B vaccine
A)	Pichia pastoris	B)	Escherichia coli
C)	Bacillus subtilis	D)	CHO cells
14. lu	n some scale insects, parthenogenesis o	ccurs	in which only female offspring are p

produced without any mating. This process is known as

Apomixis Automixis B) A) Gynogenesis D) Thelytoky C)

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15. Cyanide inhibits A) NADH dehydrogenase Succinate dehydrogenase B) C) Cytochrome c oxidase -D) ATP synthase 16. Which one of the following is not a normal constituent of urine A) NaCl B) Albumin C) Urea D) Uric acid 17. Klenow enzyme lacks A) 5'3' exonuclease activity B) 3'5' exonuclease activity C) 5'3' polymerase activity D) Proof reading activity 18. Synepitheliochorial form of placentation is usually seen in A) Primates B) Rodents C) Ruminants D) Carnivores 19. Acetic acid undergoes reduction with LiAlH4 to give A) Ethanol B) Ethane C) Ethyne D) Ethanal 20. The type of cleavage in mammalian embryo is described as A) Unequal cleavage B) Rotational cleavage C) Radial cleavage Planar cleavage D) 21. In mammals, one of the following vitamins is required in amino group transfer reaction A) Riboflavin B) Pantothenic acid C) Folic acid D) Pyridoxine 22. Rigor mortis, a condition characterized by stiffened muscles in a dead vertebrate is due to A) Depletion of ATP B) Depletion of NADPH · C) Excess accumulation of ATP D) Excess accumulation of NADPH 23. Which of the following is present at the time of cracking of hydrocarbons? B) Zeolite A) Copper D) Molybdenum C) Nickle 24. The World Environment day is celebrated on A) 3rd March 7th April B) 16th October C) 5th June D) 25. Which of the following is an inhibitor of RNA polymerase? B) Tetracyclin A) Amoxicillin D) Polymixin B C) Rifampicin

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PART "B"

A)	ircadian rhythms in mammals are regulat Melatonin Dopamine	ed by B) D)	Acetylcholine Thyroxine		
27. T	27. The SI unit of pressure is				
A)	Atm	B)	Joule		
C)	Pascal	D)	Torr		
28. W	28. Which is the most primitive group of algae?				
A)	Blue green algae	B)	Red algae		
C)	Brown algae	D)	Green algae		
29 W	hich of the following catalyst is used duri	ng th	e hydrogenation of oils?		
A)	Mo	B)	Ni		
	Pt	D)	Fe		
20 H	uman beings can hear range of sound freq	uenci	7		
A)		B)			
C)	Between 10-100 Hertz		Below 20 Hertz		
01 D.			· •.		
31. Pa A)	attern recognition receptors (PRRs) primat Cytokines	rily bi B)	nd to Hormones		
A 1	CYUNINES	D)			
-	-	D	Chamalzinaa		
C)	Unmethylated CpG DNA	D)	Chemokines		
C)	-				
C) 32, Ai	Unmethylated CpG DNA	t belo			
C) • 32. At • A)	Unmethylated CpG DNA mong these, one of the following does not	t belo	ng to adenohypophysis		
C) .32, Aı . A) . C)	Unmethylated CpG DNA mong these, one of the following does not Pars distalis Pars intermedia	t belo B)	ng to adenohypophysis Pars nervosa		
C) .32, Aı . A) . C)	Unmethylated CpG DNA mong these, one of the following does not Pars distalis Pars intermedia synecomastia is caused by	t belo B)	ng to adenohypophysis Pars nervosa		
C) 32. Ai A) C) 33. G	Unmethylated CpG DNA mong these, one of the following does not Pars distalis Pars intermedia synecomastia is caused by	t belo B) D)	ng to adenohypophysis Pars nervosa Pars tuberalis		
C) 32, Ai A) C) 33, G A) C)	Unmethylated CpG DNA mong these, one of the following does not Pars distalis Pars intermedia ynecomastia is caused by Hypothyroidism Cigarette smoking	B) D) B) D) D)	ng to adenohypophysis Pars nervosa Pars tuberalis Acromegaly Alcoholism		
C) 32, Ai A) C) 33, G A) C) 34, E	Unmethylated CpG DNA mong these, one of the following does not Pars distalis Pars intermedia synecomastia is caused by Hypothyroidism	B) D) B) D) D)	ng to adenohypophysis Pars nervosa Pars tuberalis Acromegaly Alcoholism		
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C) 32. Ai A) C) 33. G A) C) 34. E A) C) 34. E A) C) 35. W	Unmethylated CpG DNA mong these, one of the following does not Pars distalis Pars intermedia synecomastia is caused by Hypothyroidism Cigarette smoking ffect of temperature on viscosity is explai Hole theory Collision theory	belor B) D) B) D) ned b B) D) ture	ng to adenohypophysis Pars nervosa Pars tuberalis Acromegaly Alcoholism y Arrhenius theory Adsorption theory		
C) 32. Au A) C) 33. G A) C) 34. E A) C) 34. E A) C) 35. W A)	Unmethylated CpG DNA mong these, one of the following does not Pars distalis Pars intermedia synecomastia is caused by Hypothyroidism Cigarette smoking ffect of temperature on viscosity is explai Hole theory Collision theory	B) D) B) D) ned b B) D)	ng to adenohypophysis Pars nervosa Pars tuberalis Acromegaly Alcoholism y Arrhenius theory		

36. Plant species with a wide range of genetic distribution evolve into a local population known as A) Ecotype **B**) Ecosystem C) Population D) Biome 37. Example of ecotone is A) Desert B) Forest C) Marshland D) River 38. Which one of the following secreted by thyroid gland is a main marker of disorders that are accompanied by systemic inflammation and sepsis? A) Parathyrin B) Thyroxine C) Procalcitonin D) Triiodothyroxine 39. The vitamin that is derived from cholesterol is A) Vitamin A Vitamin B12 B) C) Vitamin D Vitamin K D) 40. Which of the following poisonous gas is formed when chloroform is exposed to light and air? A) Chlorine B) Carbon monoxide D) Mustard gas C) Phosgene 41. Alveolar cells of the lungs arise from which one of the following layers? A) Endoderm Mesoderm B) C) Ectoderm D) Endoderm and ectoderm 42. Cervical cancer is caused by A) Epstein-Barr virus Papillomavirus B) C) Herpesvirus D) Corona virus 43. Annexin V is used to study which of the following process A) Necrosis B) Apoptosis C) Cell Cycle D) Mitochondrial membrane potential 44. Complete transection of pituitary stalk would result in the deficiency of ALL except A) Triiodothyronine Estradiol **B**) C) Cortisol D) Aldosterone 45. Molality of 40% (by mass of solution) urea solution is A) 0.4 B) 0.6 C) 11.11 D) 0.167

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 46. One of the following statements holds true for a DNA vaccine A) DNA encodes an antibody protein against a specific antigen which would act against the pathogen C) DNA encodes pathogen DNA which stimulates antibodies against DNA of a pathogen 47. A living connecting link that provides evidence for organic evolution is A) Archeopteryx between reptiles and mammals C) Duck billed platypus between D) Sphenodon between reptiles and birds reptiles and mammals 48. Phenol red has a pH range of A) 6.4 to 8.2 B) 1.2 to 2.8 C) 3.1 to 4.6 D) 9.3 to 10.5 49. A mutation that results in substitution of one base for another in the protein coding sequence of a gene such that the produced amino acid sequence is not modified is known as A) Nonsense mutation B) Missense mutation C) Duck charling is to determine A) Heterophagic D) Paraphagic 51. Pulse-chase labeling is to determine A) Fate of protein synthesis D) Rate of cell proliferation C) Rate of DNA synthesis D) Rate of cell death 52. Vinegar has, percentage of acetic acid A) 5' carbon B) 2. 2% C) 0.5% D) 1% 	W-13		https://pathfinderacademy.in/ BookNet Code: A
 A) Archeopteryx between reptiles and B) Lung fish between pisces and reptiles mammals C) Duck billed platypus between D) Sphenodon between reptiles and birds reptiles and mammals 48. Phenol red has a pH range of A) 6.4 to 8.2 B) 1.2 to 2.8 C) 3.1 to 4.6 D) 9.3 to 10.5 49. A mutation that results in substitution of one base for another in the protein coding sequence of a gene such that the produced amino acid sequence is not modified is known as A) Nonsense mutation B) Missense mutation C) Synonymous mutation D) Non-synonymous mutation 50. Decomposers that specifically act on the fecal matter of other organisms are called as A) Heterophagic B) Allophagic 51. Pulse-chase labeling is to determine A) Fate of protein synthesis B) Rate of cell proliferation C) Rate of DNA synthesis D) Rate of cell death 52. Vinegar has percentage of acetic acid A) 5% B) 2.5% C) 0.5% D) 1% 53. Nucleotides have a nitrogenous base attached to a sugar at the A) 5' carbon B) 2' carbon C) 3' carbon D) 1' carbon 	 A) DNA encodes an antibody protein against a specific antigen which would act against the pathogen C) DNA encodes pathogen DNA which stimulates antibodies against DNA of a pathogen 	B) D)	DNA encodes a pathogenic antigenic protein which would stimulate the production of antibodies DNA codes for nuclease which specifically cleaves pathogen DNA
reptiles and mammals 48. Phenol red has a pH range of A) 6.4 to 8.2 B) 1.2 to 2.8 C) 3.1 to 4.6 D) 9.3 to 10.5 49. A mutation that results in substitution of one base for another in the protein coding sequence of a gene such that the produced amino acid sequence is not modified is known as A) Nonsense mutation B) Missense mutation C) Synonymous mutation B) Non-synonymous mutation 50. Decomposers that specifically act on the fecal matter of other organisms are called as A) Heterophagic B) Allophagic C) Coprophagic D) Paraphagic 51. Pulse-chase labeling is to determine A) Fate of protein synthesis B) Rate of cell proliferation C) 0.5% D) 1% 53. Nucleotides have a nitrogenous base attached to a sugar at the A) 5' carbon B) 2' carbon C) 3' carbon D) 1' carbon 54. The enzyme that catalysis the formation of estrogens from androgen precursors is A) CYP11 B) CYP21 C) CYP17 D) CYP19	A) Archeopteryx between reptiles and mammals	B)	Lung fish between pisces and reptiles
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 C) Rate of DNA synthesis D) Rate of cell death 52. Vinegar has percentage of acetic acid A) 5% B) 2.5% C) 0.5% D) 1% 53. Nucleotides have a nitrogenous base attached to a sugar at the A) 5' carbon B) 2' carbon C) 3' carbon D) 1' carbon 54. The enzyme that catalysis the formation of estrogens from androgen precursors is A) CYP11 B) CYP21 C) CYP17 D) CYP19 			
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 A) 5' carbon B) 2' carbon C) 3' carbon D) 1' carbon 54. The enzyme that catalysis the formation of estrogens from androgen precursors is A) CYP11 B) CYP21 C) CYP17 D) CYP19 	53. Nucleotides have a nitrogenous base attach	ed to	a sugar at the
 54. The enzyme that catalysis the formation of estrogens from androgen precursors is A) CYP11 B) CYP21 C) CYP17 D) CYP19 	· · · · · · · · · · · · · · · · · · ·		÷
A) CYP11 B) CYP21 C) CYP17 D) CYP19	C) 3' carbon	D)	1' carbon
		-	
	C) CYP17	D)	

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https://pathfinderacedemy.in/ - A W-13 55. A sigmoid shaped curve is obtained due to the cooperative binding of O₂ with A) Immunoglobulin **B**) Myoglobin C) Haemoglobin D) Albumin 56. The Michaelis-Menton equation relates the rate of an enzyme-catalyzed reaction to A) Substrate concentration B) Product concentration D) C) Activation energy Inhibitor concentration 57. The volume of gas occupied by its one equivalent at S.T.P is A) 22.4 L B) 11.2 L C) 5.6 L D) 1.0 L Meselson-Stahl provided experimental evidence on semiconservative mode of DNA 58. replication. One of the following isotopes was used is their experiment to label the DNA A) C¹⁴ H^3 B) C) N¹⁵ N^{14} D) 59. Which of the following is an antifungal agent? A) Amphotericin B) Tetracycline Amoxicillin C) Metronidazole D) 60. The number of subunits in E. coli DNA polymerase I is **B**) 2 A) 1 D) 4 C) 3 61. Chromosome puffs occur in Satellite DNA A) Polytene chromosomes B) D) Sex chromosomes • C) Lampbrush chromosomes 62. The chlorination of methane to give CCl4 is an example of B) A free radical substitution A) An electrophilic addition C) An electrophilic substitution D) A nucleophilic addition 63. Insecticide DDT is a Organochlorine B) A) Organophosphate D) Organothorium C) Organofluoride 64. The "free testosterone index" is calculated as the ratio of testosterone/sex hormone **B**) Sex hormone globulin/total A) Total testosterone binding globulin Sex hormone binding globulin/ serum Serum testosterone/sex D) hormone C) testosterone binding globulin

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65. C	arbon-carbon double bond consists of		
A)	1σ , 1π bond	B)	2σ , 1π bond
C)	2σ , 2π bonds	D)	1σ sigma, 2π bonds
66. Pl	ant cells that undergo programmed cell de	eath b	ecome functional
A)	Phloem sieve tube	B)	Xylem vessel
C)	Stomatal guard cell	D)	Root cap cell
67. W	Vith regard to dihybrid cross, select the Co	ORRI	ECT statement from the following
A)		B)	
	chromosome show higher		chromosome show very few
	recombinations	D)	recombinations
C)	Tightly linked genes on the same chromosome show very few	D)	Loosely linked genes on the same chromosome show similar
	recombinations		recombinations as the tightly linked
			ones
68. W	hich of the following is the most primitiv	e anc	estor of man
	Homo habilis	B)	Ramapithecus punjabicus
C)	Australopithecus	D)	Homo neanderthalensis
60 W	hich of the following is an anti-lipolytic h	0	N PA9
A)		B)	Glucagon
C)	Insulin	D)	Norepinephrine
0)	In Swith	,	1. orophiophillo
		oulati	on, then as per IUCN, it would be classified in
	f the following category	-	
A)	Rare	B)	Endangered
C)	Critically endangered	D)	Extinct
71. 2	-Butanol is optically active because it con	·	
A)	An asymmetric carbon	B)	A plane of symmetry
C)	A hydroxyl group	D)	A center of symmetry
72. R	emoval of RNA polymerase III from nuc	-	-
A)	mRNA	B)	rRNA
C)	tRNA	D)	hnRNA

73. RNA polymerase holoenzyme contains five subunits. Which of the following subunit contains helix-turn-helix motif?

A)	α subunit	B)	β subunit
C)	β' subunit	D)	σ factor

https://patipirderadademy()/ 74. X-linked hyper IgM syndrome is characterized by mutations in the gene encoding A) CD40 ligand B) Rag-1 and Rag-2 C) FOXN1 D) FOXC1 75. Ozonolysis of 2-butyne gives A) Formic acid B) Propionic acid C) Acetic acid Butanoic acid D) 76. Which of the following disease is not linked to lysosomes? A) Tay-Sach's Disease B) Pompe's Disease C) Marfan Syndrome D) Gaucher's Disease 77. In muscle, the first product generated in the breakdown of glycogen is A) Maltose B) UDP-glucose C) Glucose-6-phosphate D) Glucose-1-phosphate 78. The failure of chromosomes to segregate properly in meiosis or mitosis, leading to aneuploidy is called Robertsonian fusion **B**) A) Centromeric fusion C) Nondisjunction D) Translocation 79. Which of the following is a nucleophile B) H_3O^+ A) AlCl₃ C) BF₃ D) CN⁻ 80. Sharks and Rays belong to Osteichthyes A) Acanthodii B) Elasmobranchii C) Actinopterygii D) 81. The polyA tail of an mRNA consists of multiple adenine units in the form of Adenosine diphosphate A) Adenosine triphosphate **B**) D) Adenosine C) Adenosine monophosphate 82. Clomifene use is related to A) Infertility in women B) Infertility in men Contraception in men D) C) Contraception in women 83. The H-C-H bond angle in ethylene is 120 degrees A) 60 degrees B) 180 degrees D) C) 90 degrees

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D)

C) Br₂ in CCl₄

95. The genes for a trait that are inherited by both men and woman but manifest a phenotype in women are referred to as A) Sex influenced B) Sex limited C) Sex linked D) Sex determining 96. Shortage of acetylcholine in brain is associated with A) Parkinson's disease B) Alzheimer's disease C) Huntington's disease D) Schizophrenia 97. Which of the following is not an autoimmune disease? A) Rheumatoid arthritis B) Lupus erythematosis C) Bovine spongiform encephalitis D) Grave's disease 98. Chemical ions responsible for muscle contraction are A) Na⁺ and Ca⁺ B) Na⁺ and K^+ C) Ca^+ and K^+ D) Ca⁺ and Mg⁺ 99. Which of the following is used as an antifreeze? A) Ethylene Glycol **B**) Glycerol Picric acid D) Diethyl ether C) 100. The pyruvate dehydrogenase reaction involves all the following cofactors EXCEPT NAD⁺ A) Biotin B)

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C) Lipoic acid D) Thiamine and coenzyme A

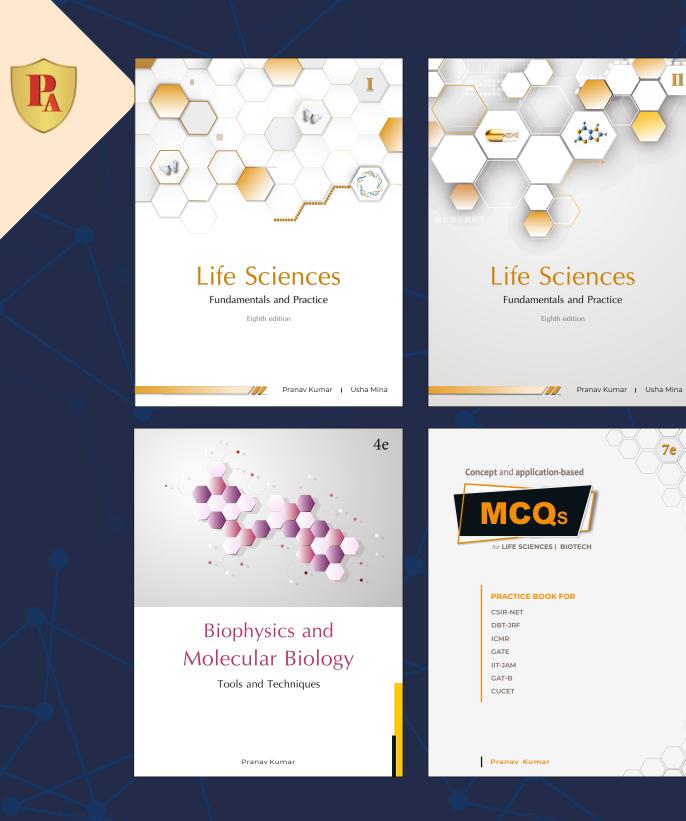
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