MULTIPLE CHOICE QUESTIONS

1.	Holoenzyme is made of			
	a. Apoenzyme and Zymogen	b. Apoenzyme and Co-enzyme		
	c. Co-enzyme and Prosthetic group	d. Prosthetic group and Co-factor		
2.	Which of the following organelle is called 'Suicic	Vhich of the following organelle is called 'Suicidal Bag'		
	a. Mitochondria	b. Endoplasmic reticulum		
	c. Lysosome	d. Ribosome		
3.	Most abundant blood cells in the human body a	re		
	a. WBCs	b. RBCs		
	c. Platelets	d. Plasma Cells		
4.	lumber of iron atoms in one haemoglobin molecule are			
	a. 1	b. 3		
	c. 4	d. 8		
5.	Which of the following is not a co-enzyme-			
	a. NAD	b. NADP		
	c. FAD	d. Mn ⁺⁺		
6.	Activity of allosteric enzymes are influenced by			
	a. Allosteric modulators	b. Allosteric site		
	c. Catalytic site	d. None of the above		
7.	In competitive inhibition, inhibitors bears a close	e structural similarity with the		
	a. Co-enzyme	b. Co-factor		
	c. Prosthetic group	d. Substrate		
8.	Enzyme acts best at a particular temperature cal	led		
	a. Catalytic Temperature	b. At normal Body temperature		
	c. Optimum temperature	d. None of the above		
9.	Lock and Key model is also known as			
	a. Template model	b. Induced fit model		
	c. Khosland's Model	d. Enzyme-substrate interaction		
4.0	model			
10	. Which bond is not associated with Enzyme-sub	strate interaction -		
	a. Hydrogen bonds	D. IONIC DONOS		
	c. Di-suilide bonds	a. Van deer waars force of		
11	Altraction Which of the following statement is incorrect.			
ΤT	a Engumes are protein in pature	h Enzymes are colleidal in nature		
	a. Enzymes are thermelabile	b. Enzymes are inergenie establist		
17	C. Enzymes dissociates from co. onzumos duo	to		
12	. Appenzymes dissociates from co-enzymes due	LU h. Chango in tomporaturo		
	a. Change in ph	d Change in inhibitor concentration		
12	Which of the following enzyme inhibitions show	u. Change in minului concentration		
13.	a Competitive inhibition	h Un-competitive inhibition		
	c Non-competitive inhibition	d Feed back inhibition		

14. Amount of total blood volume in an individual is approximately-			
a. 50 ml/Kg body weight	b. 60 ml/Kg body weight		
c. 90 ml/Kg body weight	d. 80 ml/Kg body weight		
15. Normal blood pH is			
a. 7.3	b. 7.2		
c. 7.4	d. 8.4		
16. Haematocrit value is the ratio of			
a. WBC to plasma	b. Platelets to plasma		
c. RBCs to plasma	d. Total blood cells to plasma		
17. Plasma represents percent of total blo	Dod volume		
a. 35	b. 45		
c. 55	d. 5		
18. Normal amount of plasma protein ranges from			
a. 2.2-4.3 gm%	b. 4.4-6.3 gm%		
c. 6.4-8.3 gm%	d. 8.4-10.2 gm%		
19. Which component of protein contribute to ma	ximum percentage to total plasma protein		
a. Albumin	b. Globulin		
c. Fibrinogen	d. Prothrombin		
20. Serum does not contain			
a. Calcium	b. Prothrombin		
c. Factor VIII	d. Factor-X		
21. Combination of heam with O_2 is called			
a. Oxyhaemoglobin	b. Oxidation		
c. Oxygenation	d. Oxidized haem		
22. Adult haemoglobin contains polypepti	de chains		
a. 2α,2γ	b. 2α,2β		
c. 2α,2δ	d. 2β,2y		
23. Each haemoglobin molecules carries	number of O_2 molecules		
a. 2	b. 4		
c. 1	d. 8		
24. Each gram% of haemoglobin, when fully satura	ited, can carry ml of O ₂		
a. 1.34 ml	b. 3.14 ml		
c. 4.13 ml	d. 5ml		
25. In Sickle cell anaemia, the defect lies in which p	polypeptide		
a. Alpha chain	b. Beta chain		
c. Gamma chain	d. Delta chain		
26. Average mean corpuscular diameter is	μm		
a. 5.1	b.6.3		
c. 7.3	d. 8.5		
27. Increase in RBC count beyond 10 million per cu	ı mm is known as		
a. Anisocytosis	b. Poikilocytosis		
c. Polycythemia	d. Leucocytosis		
28. During erythropoiesis haemoglobin first appears in			
a. Early normoblast	b. Intermediate normoblast		

c. Late normoblast	d. Pronormoblast
29. During hypoxia Kidney releases	
a Renin	h Renal Frythonoietic factor
c Frythronoietin	d None of the above
30 Intrinsic factor is secreted by	
a liver	h Chief cells of stomach
c. Parietal cells of stomach	d Beta cells of nancreas
31 Which of the following extrinsic factor is requi	ired for maturation of RBCs
a Vit Bra	h Folic acid
	d Both (a) and (b)
22 Largest WRCs in peripheral blood is	
32. Largest WBCs in peripheral blood is	h Large lymphosyte
a. Neutrophil	d Eosinophil
22 The process by which W/BCs squeeze through	u. Eosinophii noros in capillaru wall is
55. The process by which was squeeze through	b Dinecutoric
a. Chemolaxis	D. PINOCYLOSIS
C. Opsonization	d. Diapedesis
34. Smallest blood cell is	h Distaist
a. Small lymphocyte	D. Platelet
C. KBU	a. Neutrophi
35. Commonest anaemia in India is	
a. Pernicious anaemia	b. Sickle cell anaemia
c. Iron deficiency anaemia	d. None of the above
36. The term ER was coined by	h. De de c
	b. Porter
c. Robert Brown	a. Benda
37. Which of the following organelle has a continu	uous connection with nuclear membrane
a. Goigi apparatus	b. Lysosome
	a. ser
38. In RER, ribosomes are located on	
a. the cytoplasmic side	b. on the luminal side
c. both (a) and (b)	d. all throughout
39. Which of the following statements were true	regarding ER
a. ER provides structural framework to the cell	
b. ER acts as intra cellular transporting system	
c. SER is involved in the synthesis of lipid	
d. All of the above	
40. Which of the following statements are correct	t regarding Golgi apparatus
a. sorting and packaging	b. exocytosis of melanin granules
c. exocytosis of thyroxine hormone	d. all of the above
41. The term Golgi apparatus was coined by	
a. Camillo Golgi	b. Robert Brown
c. Robert Hook	d. Benda
42. F_0 - F_1 Particles are located on	
a. Thylakoids	b. inner mitochondrial membrane

c. Golgian vacuoles	d. None of the above	
43. In mitochondria cristae act as sites for		
a, protein synthesis		
b. phosphorylation of flavoproteins		
c. breakdown of macromolecules		
d Oxidation-reduction reaction		
4. Mitochondrial inner membrane is rich in which phospholinid		
a Phosphatidyl inositol	h Phosphatidyl serine	
c Cardiolinin	d Phosphatidyl schline	
45 Which of the following is NOT a function of mit	ochondrion	
a electron transport and associated ATP production		
h. Eatty acid breakdown		
c pop shivering thermogenesis		
d. glycolycic and accordated ATP production		
4. Who spinod the term mitachandria		
46. Who comed the term mitochondria	h Danda	
a. Kollikel	D. Dellud d. Debert Brown	
C. Fleenming	a. Robert Brown	
47. Nucleus was first discovered by	h Charles and	
a. Robert Hook	b. Strasburger	
c. Robert Brown	d. None of the above	
48. Nuclear membrane is in continuous connection	i with	
a. SER	b. RER	
c. Golgi apparatus	d. Lysosomes	
49. The number of nuclear pores depends on		
a. Size of cells	b. Transcriptional activity of the cell	
c. DNA content of the cell	d. all of the above	
50. The DNA Protein ratio in chromatin is		
a. 3:1	b. 2:1	
c. 1:1	d. 4:1	
51. The function of nucleolus is		
a. RNA synthesis	b. DNA synthesis	
c. Histone synthesis	d. Ribosomal subunit synthesis	
52. The basic protein of the nucleus are		
a. nucleohistones	b. nuceoprotamines	
c. both (a) and (b)	d. none of these	
53. Lysosomes are present in all except		
a. muscle cells	b. acinar cells	
c. erythrocytes	d. hepatocytes	
54. Which of the following is the function of lysoso	mes	
a. autophagy	b. autolysis	
c. digestion	d. all of the above	
55. Lysosomes are involved in		
a. Extracellular digestion	b. Intracellular digestion	
c. both (a) and (b)	d. none of the above	

56. Who identified lysosome	
a. Novikoff	b. Claude
c. Palade	d. none of the above
57. All the following has ribosomes except	
a. nucleus	b. mitochondrion
c. chloroplast	d. cytoplasm
58. In 70S ribosome 'S' stands for	, ,
a. S.I unit	b. Solubility factor
c. Svedberg unit	d. None of the above
59. 80S ribosomes are found in	
a. Eukaryotes	b. Prokaryotes
c. Both eukaryotes and Prokaryotes	d. Eukaryotic plant cells
60. The subunits of 80S ribosomes include	
a. 40S and 50S	b. 30S and 50S
c. 40S and 60S	d. 20S and 60S
61. The subunits of 70S ribosomes include	
a. 40S and 50S	b. 30S and 40S
c. 30S and 50S	d. 20S and 50S
62. 70S ribosomes occur in	
a. Viruses	b. prokaryotes
c. eukaryotic plant cells	d. eukaryotic animal cells
63. Ribosomes are made up of	
a. RNA only	b. RNA and Proteins
c. RNA, DNA and Proteins	d. nucleic acids, proteins and lipids
64. The rough ER is specially well developed in cell	ls actively engaged in
a. Protein synthesis	b. Nucleotide synthesis
c. Lipid synthesis	d. Secretory functions
65. The nucleus contains	
a. Mitochondria	b. Golgi apparatus
c. Chromosomes	d. Lysosomes
66. Plasma membrane is	
a. Permeable	b. Selectively permeable
c. Impermeable	d. Semi-permeable
67. Most accepted structural model of plasma me	mbrane is
a. Sandwitch model	b. Unit membrane model
c. Lamellar model	d. Fluid-mosaic model
68. Plasma membrane is composed of	
a. Glycoproteins	b. Lipoproteins
c. Chromoproteins	d. Lipids
69. Ribosomes contain maximum amount of	
a. Steriods	b. Lipids
c. RNA	d. DNA
70. Which structure is present in animal cell but is	absent from plant cell ?
a. Centrioles	b. Golgi apparatus

c. Mitochondria	d. Endoplasmic reticulum		
71. A unit membrane is about :			
a. 50-60 Å thick	b. 60-75 Å thick		
c. 75-100 Å thick	d. 100-120 Å thick		
72. The enzymes which break up starch into sugar are called			
a. Hydrolases	b. Amylases		
c. Lipases	d. Nucleases		
73. Apoenzyme is a			
a. Protein	b. Carbohydrate		
c. Vitamin	d. Amino acid		
74. Coenzyme is :			
a. Always a protein	b. Often a metal		
c. Always an inorganic compound	d. Often a vitamin		
75. Enzymes are named after their substrates by a	adding suffix :		
ain	base		
cose	dsin		
76. Enzyme exist in the cells as-			
a. Solid	b. Crystals		
c. Colloid	d. None of the above		
77. An enzyme brings about :			
a. Reduction in activation energy	b. Increase in reaction time		
c. Increase in activation energy	d. All the above		
70 Which of the following statement is "NOT' and			
78. Which of the following statement is "NOT' con	rrect		
78. Which of the following statement is "NOT' con a. All enzymes are thermolabile	rrect b. All enzymes are biocatalysts		
 78. Which of the following statement is "NOT' contained as a contained of the following statement is "NOT' contained and the contained of the following statement is "NOT' contained of the following statement of the following statement of the following statement is "NOT' contained of the following statement is "NOT' contained of the following statement of the fo	rrect b. All enzymes are biocatalysts d. All proteins are enzymes		
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85. pH of RBC is lower due to			
a. Na ⁺ -K ⁺ Pump action	b. Gibb's Donnan Effect		
c. Efflux of OH ⁻ from RBC	d. None of the above		
86. Gibb's Donnan effect creates			
a. Diffusion	b. Surface tension		
c. Osmotic pressure	d. None of the above		
87. Transmembrane potential results due to			
a. Donnan Effect	b. Influx and efflux of oppositely		
charged ions	······································		
c. Retention of anions inside the membrane	d. All the above		
88. Rate of diffusion of a substance depends on			
a. Presence of semi-permeable membrane	b. Concentration gradient of solute		
c Concentration of solvent	d Concentration of ions		
89 Homeostasis means			
a Control of internal environment of the body	h Adaptation with the environment		
c Constant environment of the body	d All of the above		
90 Diffusion is more rapid in	d. An of the above		
a Solid	h Liquid		
	d Mixture of liquid and gas		
91 In Osmosis movement of	hrough the semi-nermeable		
membrane	mough the semi-permeable		
a Solvent	h Solute		
c Both (a) and (b)	d All the above		
	a. An the above		
92. Viscosity of blood increases with rise in			
a. Albumin	b. Globulin		
c. Fibrinogen	d. Prothrombin		
93. Osmotic pressure across the capillary wall is exe	erted by		
a. Size of the molecule	b. Shape of the molecule		
c. Concentration of the molecule	d. All the above		
94. Effect of change of temperature on viscosity inv	94. Effect of change of temperature on viscosity involves		
a. Increase in viscosity	b. Decrease in viscosity		
c. No change	d. Both (a) and (b)		
95. pH means			
a. –log [H ⁺]	b. –log ₁₀ [H ⁺]		
c. –log [H]	d. log [H ⁺]		
96. Microcytic anaemia develops in			
a. Vit B ₁₂ deficiency	b. Folic acid deficiency		
c. Both (a) and (b)	d. None of the above		
97. Extrinsic system of blood clotting is initiated by			
a. Factor-III	b. Factor-VIII		
c. Factor-II	d. Factor-I		
98. One of the following is NOT an anticoagulant			
1a. Heparin	b. Protein-C		

c. Antithrombin-III

d. Thrombin

- 99. Following are the membrane bound cell organelles except
 - a. Endoplasmic reticulum

b. Lysosome

c. Ribosomes

d. Peroxisome

- 100. The intrinsic protein present in the cell membrane mainly functions as
 - a. Enzymes
 - c. Pores

- b. Carrier
- d. Channels

ANSWERS

1.(b) 2.(c) 3.(b) 4.(c) 5.(d) 6.(a) 7.(d) 8.(c)9.(a) 10.(c) 11.(d) 12.(a)13.(a) 14.(d) 15.(c) 16.(c) 17.(c) 18.(a) 19.(a) 20.(a) 21.(a) 22.(b) 23.(d) 24.(b) 25.(b) 26.(c) 27.(c) 28.(b) 29.(b) 30.(c) 31. (d) 32.(c) 33.(d) 34.(b) 35.(c) 36.(b) 37.(c) 38.(a) 39.(d) 40.(d) 41.(a) 42.(b) 43.(d) 44.(c) 45.(d) 46. (b) 47.(c) 48.(b) 49.(b) 50.(c) 51.(d) 52.(c) 53.(c) 54.(d) 55.(c) 56.(a) 57.(a) 58.(c) 59.(a) 60.(c) 61.(c) 62.(b) 63.(b) 64.(a) 65.(c) 66.(b) 67.(d) 68.(b) 69.(c) 70.(a) 71.(c) 72.(b) 73.(a) 74.(d) 75.(b) 76.(c) 77.(a) 78.(d) 79.(d) 80.(c) 81.(b) 82.(d) 83.(a) 84.(a) 85.(b) 86.(c) 87.(a) 88.(b) 89.(c) 90.(c) 91.(a) 92.(a) 93.(c) 94.(d) 95.(b) 96.(c) 97.(a) 98.(d) 99.(c) 100.(a)