ENTRANCE EXAMINATION FOR ADMISSION, MAY 2011.

Ph.D. (CLINICAL BIOCHEMISTRY)

COURSE CODE: 164

Register Number :	
	Signature of the Invigilator (with date)

COURSE CODE: 164

Time: 2 Hours Max: 400 Marks

Instructions to Candidates:

- 1. Write your Register Number within the box provided on the top of this page and fill in the page 1 of the answer sheet using pen.
- Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- 3. Read each question carefully and shade the relevant answer (A) or (B) or (C) or (D) or (E) in the relevant box of the ANSWER SHEET using HB pencil.
- 4. Avoid blind guessing. A wrong answer will fetch you −1 mark and the correct answer will fetch 4 marks.
- 5. Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- 6. Do not open the question paper until the start signal is given.
- 7. Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- 8. On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.
- 9. Use of Calculators, Tables, etc. are prohibited.

1.		ch is the appropriate time for hemistry constituents?	collection	n	of blood for estimating most of its
	(A)	Fasting time	(B	(3)	Post prandial time
	(C)	Immediately after meals	. (D))	After giving a stimulant
2.	Eme	ergency biochemical investigation	s in blood	l a	re
	(A)	Glucose	(B	(3)	Urea and Creatinine
	(C)	Electrolytes	(D)	All of the above
3.	Wha	at is the preferred specimen for a	nalysis of	gl	ucose (sugar) in blood?
	(A)	Heparinised plasma	(B	(3)	Fluoride oxalate plasma
	(C)	Serum	(D))	EDTA plasma
4.	Fast	ting plasma true glucose level is			
	(A)	70-110 mg/100 ml	(E	3)	80-120 mg/100 ml
	(C)	100-140 mg/100 ml	· (E))	150-250 mg/100 ml
5.	Нур	erglycemia occurs in			
	(A)	Hyperinsulinism	(B	3)	Hypopotuitarism
	(C)	Diabetes mellitus	(Σ))	Hypothyroidism
6.	Dial	betes mellitus can be detected by	which tes	stı	using urine specimen?
	(A)	Rothera's test	(E	3)	Benedict's test
	(C)	Hay's test	(I))	Benzidine test
7.	Whi	ch method is used to estimate blo	ood glucos	se?	
	(A)	Folin Wu method	(E	3)	O-Toluidine method
	(C)	GOD-POD method	(Σ))	All of the above
8.		ch of the following tests is usefu ypoglycemia?	l in the i	nv	estigation of patients with symptoms
	(A)	Glucagon test	(E	3)	Tolbutamide test
	(C)	Leucine sensitivity test	(I))	All of the above
9.	Amo	ount of glucose given for a patien	t during (ΤĘ	T is
	(A)	10 gm	(E	3)	30 gm
	(C)	60 gm	(Ι))	75 gm

10.	Det	ermination of glycosylated hemogl	obin in blo	od is used to mo	nitor	
	(A)	Sickle cell anemia	(B)	Liver cirrhosis		
	(C)	Diabetes mellitus	(D)	Thalassemia		
11.	The	renal threshold for glucose is				
	(A)	80 mg/dl (B) 100 mg/dl	(C)	180 mg/dl	(D)	200 mg/dl
12.	In t	he fasting adult, the sugar in CSF	is			
	(A)	15-45 mg/dl (B) 45-80 mg/d	dl (C)	70-110 mg/dl	(D)	80-120 mg/dl
13.	Bloo	od cholesterol is elevated in which	of the follo	wing condition?		
	(A)	Hypothyroidism	(B)	Hyperthyroidis	sm	
	(C)	Hypoinsulinism	(D)	None of the ab	ove	
14.	Esti	mation of serum triglycerides is o	f diagnostic	c importance in		
	(A)	Multiple myeloma	(B)	Hyperlipidemi	as	
	(C)	Nephrotic syndrome	(D)	Jaundice		
15.	In I with	rederickson's classification of the	e hyperlipo	proteinemia, ty	pe II	A is associated
	(A)	Decreased LDL Level	(B)	Increased plas	ma cho	olesterol level
	(C)	Increased triglyceride level	(D)	All of the abov	е	
16.		ch of the following substances will din the plasma in postprandial h			aractei	istic milkiness
	(A)	Chylomicrons	(B)	Cholesterol		
	(C)	Triglycerides	(D)	Free fatty acid	S	
17.	Nor	mal plasma protein levels varies i	n the range	е		
	(A)	3.2-5.8 g/10 ml	(B)	5.0-7.5 g/10 ml	L	
	(C)	6.0-8.0 g/10 ml	(D)	7.5-8.5 g/10 ml	l	
18.	Rais	sed plasma protein levels are com	nonly foun	d in		
	(A)	Dehydration	(B)	Paraproteinae	mias	
	(C)	Infective hepatitis	(D)	All of the abov	е	
19.	Нур	oalbuminemia occurs in				
	(A)	Tetany	(B)	Oedema		
	(C)	Dehydration	(D)	None of the ab	ove	

20.	Whi	Which of the following serum protein fractions is increased in cirrhosis of liver?								
	(A)	γ – Globulin	(B)	α_2 – Globulin						
	(C)	α_{I} – Globulin	(D)	Albumin						
21.		ch of the changes in serum electrop drome?	horet	ic pattern is diagnostic of nephritic						
	(A)	Increased albumin	(B)	Increased α_1 – Globulin						
	(C)	Increased α_2 – Globulin	(D)	Increased γ – Globulin						
22.	Ben	ce jones proteins may be excreted in ur	ine of	patients suffering from						
	(A)	Diabetic mellitus	(B)	Multiple myeloma						
	(C)	Diabetes insipidus	(D)	Hematuria						
23.	Imn	nunoglobulin deficiency is observed in								
	(A)	Malignant disease	(B)	AIDS						
	(C)	Newborn infants	(D)	All of the above						
24.	Tum	or marker enzyme in prostatic cancer	is							
	(A)	Alkaline phosphatase	(B)	Acid phosphatase						
	(C)	CPK	(D)	LDH						
25.	Нур	ercalcemia is seen in								
	(A)	Malignant disease	(B)	Excessive secretion of calcitonin						
	(C)	Secondary hyperparathyroidism	(D)	None of the above						
26.	The	level of serum phosphate is usually re-	duced	below normal in						
	(A)	Hypoparathyroidism	(B)	Tetany						
	(C)	Vitamin D resistant rickets	(D)	All of the above						
27.	Plas	ma iron concentration is typically high	er in							
	(A)	Hypochromic microcytic anemia	(B)	Rheumatoid arthritis						
	(C)	Hepatitis	(D)	Acute hemolytic episode						
28.		on's disease is characterized by the de	positi	on of one of the following minerals in						
	(A)	Cobalt (B) Copper	(C)	Iron (D) Zinc						
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29.	The	important biochemical abnormalities i	n Cus	hing's syndrome include
	(A)	Hypokalemia	(B)	Hyponatremia
	(C)	Hypoglycemia	(D)	None of the above
30.	Bile	acids are synthesized from		
	(A)	Simple fatty acids	(B)	Cholesterol
	(C)	Sialic acid	(D)	β – Hydroxy butyric acid
31.	Esse	ential fatty acids are		
	(A)	Synthesized from the liver		
	(B)	Stored in the adipose tissue		
	(C)	Cannot be synthesized by the body		
	(D)	Converted to Vitamin D by UV light		
32.	A co	ompetitive inhibitor of an enzyme		The second second
	(A)	\uparrow ses K_m without affecting V_{max}	(B)	$\downarrow ses \; K_m$ without affecting V_{max}
	(C)	\uparrow ses V_{max} without affecting K_{m}	(D)	$\downarrow ses \; V_{max} \; without \; affecting \; K_m$
33.	Insu	alin does all of the following except		
	(A)	Enhance glucose transport into musc	le	
	(B)	Enhance glycogen formation by liver		
	(C)	Enhance amino acid transport into m	uscle	
	(D)	Enhance gluconeogenesis in liver		
34.	α-	Tocopherol		
	(A)	Functions primarily as an antioxidan	t	
	(B)	Deficiency is commonly formed in ad-	alt	
	(C)	Is found in high concentration in who	le gra	ins and cereals
	(D)	↑ ses urinary excretion of calcium		
35.	Trig	dycerides are digested in the intestine	by the	enzyme
	(A)	Amylase	(B)	Protease
	(C)	Cellulose	(D)	Lipase
36.		urrent kidney stones are composed of		
	(A)	Calcium oxalate	(B)	Calcium phosphate
	(C)	Citric acid	(D)	Uric acid

37.	RNA	A molecules that exhibit catalytic activi	ty are	called
	(A)	mRNAs	(B)	ribonucleases
	(C)	ribosomes	(D)	ribozymes
	(E)	ribonucleotides		
38.		ch of the following hormones initiates abrane and then binding to a receptor?	biolo	ogical actions by crossing the plasma
	(A)	Glucagon	(B)	Estradiol
	(C)	Insulin	(D)	Norepinephrine
	(E)	Adrenocorticotropic hormone		
39.		major mechanism of turnover of molecurs through	eular	components of the plasma membrane
	(A)	Endocytosis of patches if membrane		
	(B)	Diffusion of individual molecules into	the c	ytoplasm
	(C)	Recovery of specific components by se	lectiv	e receptors
	(D)	Expulsion of integral molecules into t	he ex	tracellular medium
	(E)	The concerted action of multifunction	al enz	zyme complexes.
40.		ns-mediated transfer of cellular genetic neans of virus particles is called	mate	rial from one bacterial cell to another
	(A)	induction	(B)	transfection
	(C)	transformation	(D)	transposition
	(E)	transduction		
41.		abation of gram-negative bacteria with shaped bacteria to assume a spherical		그는 7000의 아름이 있는 이번 이번 살아보다면 생각하는 사람들이 되었다면 하는 사람들이 되었다면 하는 것이다.
	(A)	Absorption of water	(B)	Destruction of the cell wall
	(C)	Destruction of the cytoskeleton	(D)	Damage to the plasma membrane
	(E)	Change in gene expression		
42.		ddition to proteins, major component		
	(A)	Triacylglycerol, cholesterol, and phosp	pholip	oid
	(B)	Triacylglycerol, squalene and phospho	olipid	s
	(C)	Triacylglycerol, squalene and sphingo	sine	
	(D)	Monoacylglycerol, cholesterol, and ph	ospho	lipids
	(E)	Monoacylglycerol squalene and sphir	gosin	e

43.		ich of the following is meant by the mers?	ne state	ment that glucose and mannose are					
	(A)	One is an aldose and the other is a	ketose						
	(B)	(B) One is a pyranose and the other is a furanose							
	(C)	They are mirror images of each oth	ner						
	(D)	They rotate the plane of light in or	posite d	irections					
	(E)	They differ only in the configuration	on about	one carbon atom					
44.	The	rate limiting step of fatty acid synth	nesis is c	atalyzed by					
	(A)	Acetyl CoA carboxylase	(B)	ATP - citrate lyase					
	(C)	Malic enzyme	(D)	Pyruvate dehydrogenase					
	(E)	Thiolase							
45.	All	of the following are capable of forming	ng hydro	gen bonds with water EXCEPT					
	(A)	Methanol	(B)	Acetamide					
	(C)	Methyl acetate	(D)	Ethanolamine					
	(E)	Hexane							
46.		ich are the cholesterol esters that ocytosis of lipoproteins hydrolyzed?	enter	cells through the receptor-mediated					
	(A)	Endoplasmin reticulum	(B)	Lysosomes					
	(C)	Plasma membrane receptor	(D)	Mitochondria					
47.		ch of the following phospholipids let of the membrane lipid bilayer?	is localiz	zed to a greater extent in the outer					
	(A)	Choline phosphoglycerides	(B)	Ethanolamine phosphoglycerides					
	(C)	Inositol phosphoglycerides	(D)	Serine phosphoglycerides					
48.	All t	the following processes occur rapidly	in the n	nembrane lipid bilayer except					
	(A)	Flexing of fatty acyl chains							
	(B)	Lateral diffusion of phospholipids							
	(C)	Transbilayer diffusion of phopholip	oids						
	(D)	Rotation of phospholipids around t	heir long	gaxes					
49.	The	monosaccharide units are linked by	$\alpha 1 \rightarrow 4$	glycosidic linkage in					
	(A)	Maltose (B) Sucrose	(C)	Cellulose (D) Cellobiose					

37.	RNA	A molecules that exhibit catalytic activi	ty are	called
	(A)	mRNAs	(B)	ribonucleases
	(C)	ribosomes	(D)	ribozymes
	(E)	ribonucleotides		
38.		ch of the following hormones initiates abrane and then binding to a receptor?		gical actions by crossing the plasma
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	(A)	Absorption of water	(B)	Destruction of the cell wall
	(C)	Destruction of the cytoskeleton	(D)	Damage to the plasma membrane
	(E)	Change in gene expression		
42.		addition to proteins, major component ulating in the blood of a normally fed m		
	(A)	Triacylglycerol, cholesterol, and phos	pholip	pid
	(B)	Triacylglycerol, squalene and phosph	olipid	s
	(C)	Triacylglycerol, squalene and sphinge	sine	
	(D)	Monoacylglycerol, cholesterol, and ph	ospho	olipids
	(E)	Monoacylglycerol, squalene and sphir	ngosir	ne

50.	Whi	ch of the followi	ng is a	non-reducing s	ugar?			
	(A)	Isomaltose	(B)	Maltose	(C)	Lactose	(D)	Trehalose
51.	Whi	ch of the followi	ng is a	reducing sugar	?			
	(A)	Sucrose	(B)	Trehalose	(C)	Isomaltose	(D)	Agar
52.	N-A	cetylglucosamn	ine is p	present in				
	(A)	Hyaluronic ac	id		(B)	Chondroitin su	lphate	
	(C)	Heparin			(D)	All of these		
53.	Iodi	ne gives a red c	olour w	vith				
	(A)	Starch	(B)	Dextrin	(C)	Glycogen	(D)	Inulin
54.	Amy	lose is a constit	dent o	f				
	(A)	Starch	(B)	Cellulose	(C)	Glycogen	(D)	None of these
55.	Syn	ovial fluid conta	ins					
	(A)	Heparin			(B)	Hyaluronic aci	d	
	(C)	Chondroitin s	ulphate	е	(D)	Keratin sulpha	ate	
56.	Glu	coneogenesis is	decrea	sed by				
	(A)	Glucagon	(B)	Epinephrine	(C)	Glucocorticoid	s (D)	Insulin
57.	The	component of c	artilag	e and cornea is				
	(A)	Keratosulpha	te		(B)	Chondroitin su	ılphat	е
	(C)	Cadmium sul	phate		(D)	Antimony sulp	hate	
58.		edict's test is lo to the action of		ely to give weal	kly pos	itive results wi	th cond	centrated urine
	(A)	Urea			(B)	Uric acid		
	(C)	Ammonium sa	alts		(D)	Phosphates		
59.	Acti	ve transport of	sugar	is depressed by	the age	ent:		
	(A)	Oxaloacetate	(B)	Fumarate	(C)	Malonate	(D)	Succinate
60.	The	general test for	detect	tion of carbohyd	lrates is	3		
	(A)	Iodine test	(B)	Molisch test	(C)	Barfoed test	(D)	Osazone test
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61.	(A) Hexokinase only	sphate in human liver is by	
	(B) Glucokinase only		
	(C) Hexokinase and glucokinase		
	(D) Glucose-6-phosphate dehydrogen	900	
	(D) Glacose-o-phosphate denyarogen	ase	
62.	The following is an enzyme required for	or glycolysis	
	(A) Pyruvate kinase	(B) Pyruvate carboxylase	
	(C) Glucose-6-phosphatose	(D) Glycerokinase	
63.	The normal glucose tolerance curve re-	aches neak is	
00.	(A) 15 min (B) 1 hr	(C) 2 hrs (D) $2\frac{1}{2}$ hrs	
	(1) 10 11111 (1) 1111	(b) 2 ms	
64.	Oxidative decarboxylation of pyruvate	requires	
	(A) NADP+	(B) Cytochromes	
	(C) pyridoxal phosphate	(D) COASH	
65.	The total Glucose in the body is	gms	
	(A) 10–15 (B) 20–30	(C) 40–50 (D) 60–80	
66.	Pyruvate kinase requires	ions for maximum activity.	
	(A) Na ⁺ (B) K ⁺	(C) Ca ²⁺ (D) Mg ²⁺	
67.		g cycle in RBCs as otherwise it will inhibit	
	(A) Phosphoglucomutase		
	(B) Phosphohexo isomerase		
	(C) Phosphofructo kinase (D) Phosphoenol pyruvate carboxy ki	nasa	
	(D) I hosphoenor pyruvate carboxy ki	nase	
68.	The amino acid from which synthesis	of the protein of hair keratin takes place is	
	(A) Alanine	(B) Methionine	
	(C) Proline	(D) Hydroxyproline	
69.	In one molecule of albumin the numbe	r of amino acide is	
00.	(A) 510 (B) 590	(C) 610 (D) 650	
	(II) 010 (D) 000	(6) 010 (2) 000	
70.	Plasma proteins which contain more th	nan 4% hexosamine are	
	(A) Microglobulins	(B) Glycoproteins	
	(C) Mucoproteins	(D) Orosomucoids	
71.	After releasing O2 at the tissues, hemo	globin transports	
1 1.	(A) CO ₂ and protons to the lungs	(B) O ₂ to the lungs	
	(C) CO ₂ and protons to the tissue	(D) Nutrients	
	(-)	_/	

72.	Ehlers is due		me c	haracterized by	hyper	mobile joints and	l skin	abnormalities
	(A) A	Abnormality in	gene	for procollagen	(B)	Deficiency of lys	syl oxi	idase
		Deficiency of pro			(D)	Deficiency of lys	syl hy	droxylase
73.	Protei	ns are soluble i	n					
	(A) A	Anhydrous acet	one		(B)	Aqueous alcoho	l	
	(C) A	Anhydrous alcol	hol		(D)	Benzene		
74.	A cere	al protein solub	ole in	70% alcohol but	insolu	ıble in water or s	alt so	lution is
	(A) (Glutelin	(B)	Protamine	(C)	Albumin	(D)	Gliadin
75.	Many	globular protei	ns ar	e stable in soluti	ion ins	pite they lack in		
	(A) I	Disulphide bond	ls		(B)	Hydrogen bonds	S	
	(C) S	Salt bonds			(D)	Non polar bond	S	
76.	The h	ydrogen bonds l	etwe	en peptide links	iges of	a protein molecu	les ar	re interfered by
	(A) (Guanidine	(B)	Uric acid	(C)	Oxalic acid	(D)	Salicylic acid
77.	In the	total proteins	the	percentage of a	e – glob	oulin is about .		
	(A) 2	2.4-4.4%	(B)	10.0-21.0%	(C)	6.1-10.1%	(D)	1.2-2.0%
78.	Most	frequently the r	norma	al albumin globu	lin rat	tio (A : G) is		
	(A)	1.0:0.8	(B)	1.5:1.0	(C)	2.0:1.0	(D)	2.4:1.0
79.	In Th	ymol turbidity t	est t	he protein involv	red is 1	mainly		
	(A)	Albumin	(B)	α_1 – Globulin	(C)	α_2 – Globulin $^{\circ}$	(D)	β Globulin
80.	In qua	aternary structi	are, s	ubunits are link	ed by			
	(A)	Peptide bonds			(B)	Disulphide bon	ds	
	(C)	Covalent bonds			(D)	Non-covalent b	onds	
81.	Daily	excretion of nit	roger	n by an adult ma	ın is al	oout		
	(A)	15–20 mg	(B)	1.5–2 gm	(C)	5–10 gm	(D)	15–20 gm
82.	Maple	e syrup urine di	sease	es is an inborn e	rror of	metabolism of		
	(A)	Sulphur-contain	ning a	amino acids	(B)	Aromatic amin	o acid	s
	(C)	Branched chain	ami	no acids	(D)	Dicarboxylic ar	nino a	acids
83.	Cystin	nuria results fr	om in	ability to				
		Metabolise cyst			(B)	Convert cystine	e into	cysteine
	(C)	Incorporate cys	teine	into proteins	(D)	Reabsorb cystin	ne in	renal tubules

The	defective enzyme in histidinemia is							
(A)	Histidine carboxylase	(B)	Histidine decarboxylase					
(C)	Histidase	(D)	Histidine oxidase					
All t	the following statements about phenylk	etonu	uria are correct except					
(A)	Phenylalanine cannot be converted in	to tyr	rosine					
(B)	Urinary excretion of phenylpyruvate	and p	henyllactate is increased					
(C)	It can be controlled by giving a low-pl	nenyla	alanine diet					
(D)	It leads to decreased synthesis of melanin	fthyi	roid hormones, catecholamines and					
All t	the following statements about albinism	n are	correct except					
(A)	Tyrosine hydroxylase (tyrosinase) is a	absent	t or deficient in melanocytes					
(B)	Skin is hypopigmented							
(C)	It results in mental retardation							
(D)	Eyes are hypopigmented							
SGOT level in an adult is								
(A)	5–40 units/dl	(B)	1–4 units/dl					
(C)	5–15 units/dl	(D)	50–100 units/dl					
Acti	vity of ceruloplasmin shown in vitro							
(A)	Reductase (B) Hydrolase	(C)	Ligase (D) Oxidase					
Increased serum alanine during fasting is due to								
(A)	Breakdown of muscle proteins							
(B)	Decreased utilization of non essential	lamin	no acids					
(C)	Leakage of aminoacids to plasma							
(D)	Impaired renal function							
Mec	Mechanism by which NH3 is removed from the kidneys is							
(A)	Urea formation	(B)	Uric acid formation					
(C)	Creatinine formation	(D)	None of these					
Low	density plasma proteins are rich in							
(A)	Chylomicrons	(B)	Cholesterol					
(C)	Triglycerides	(D)	Phospholipids					
	(A) (C) All (A) (B) (C) (D) All (A) (B) (C) (D) SGC (A) (C) Acti (A) Incr (A) (B) (C) (D) Low (A)	All the following statements about phenylle (A) Phenylalanine cannot be converted in (B) Urinary excretion of phenylpyruvate (C) It can be controlled by giving a low-pl (D) It leads to decreased synthesis of melanin All the following statements about albinism (A) Tyrosine hydroxylase (tyrosinase) is a (B) Skin is hypopigmented (C) It results in mental retardation (D) Eyes are hypopigmented SGOT level in an adult is (A) 5-40 units/dl (C) 5-15 units/dl Activity of ceruloplasmin shown in vitro (A) Reductase (B) Hydrolase Increased serum alanine during fasting is (A) Breakdown of muscle proteins (B) Decreased utilization of non essential (C) Leakage of aminoacids to plasma (D) Impaired renal function Mechanism by which NH ₃ is removed from (A) Urea formation (C) Creatinine formation Low density plasma proteins are rich in (A) Chylomicrons	(A) Histidiae carboxylase (B) (C) Histidase (D) All the following statements about phenylketone (A) Phenylalanine cannot be converted into tyn (B) Urinary excretion of phenylpyruvate and p (C) It can be controlled by giving a low-phenyls (D) It leads to decreased synthesis of thy melanin All the following statements about albinism are (A) Tyrosine hydroxylase (tyrosinase) is absent (B) Skin is hypopigmented (C) It results in mental retardation (D) Eyes are hypopigmented SGOT level in an adult is (A) 5–40 units/dl (B) (C) 5–15 units/dl (D) Activity of ceruloplasmin shown in vitro (A) Reductase (B) Hydrolase (C) Increased serum alanine during fasting is due to (A) Breakdown of muscle proteins (B) Decreased utilization of non essential amin (C) Leakage of aminoacids to plasma (D) Impaired renal function Mechanism by which NH3 is removed from the k (A) Urea formation (B) (C) Creatinine formation (D) Low density plasma proteins are rich in (A) Chylomicrons (B)					

92.	Transcortins are			
	(A)	Mucoproteins	(B)	Glycoproteins
	(C)	Metalloproteins	(D)	Lipoproteins
93.	Proteins that carries Iron into different tissues is			
	(A)	Ceruloplasmin	(B)	Trans cortin
	(C)	Mucoproteins	(D)	Glycoproteins
94.	A dietary deficiency of tryptophan and nicotinate leads to			
	(A)	Beri Beri	(B)	Xerophthalmia
	(C)	Anemia	(D)	Pellegra
95.	Which one of the following is an essential amino acid?			
	(A)	Arginine	(B)	Tyrosine
	(C)	Phenylalanine	(D)	Proline
96.	One of the following amino acid is solely ketogenic			
	(A)	Lysine	(B)	Alanine
	(C)	Valine	(D)	Glutamate
97.	Along with CO2, NH3 and ATP, the amino acid that is needed in urea cycle is			
	(A)	Alanine	(B)	Isoleucine
	(C)	Aspartate	(D)	Glycine
98.	The example of metalloproteins			
	(A)	Siderophilin	(B)	OREES mucoid
	(C)	Elastin	(D)	All of these
99.	The example of chromoprotein			
	(A)	Salmine	(B)	Catalase
	(C)	Zein	(D)	Gliadin
100.	Deamination is ——— of amino group			
	(A)	Removal	(B)	Addition
	(C)	Supplementation	(D)	None of these