FINAL ANSWER KEY

	Category Code:	004/2021
	Exam:	Assistant Professor in Biochemistry
	Date of Test	11-08-2022
	Department	Medical Education
	Alphacode	A
Question1:-Which of the fo (i) It measures IgE antibo (ii) It is scored from 0 to 6 (iii) It is the same as the s		orrect about RAST?
A:-Only (i)		
B:-Only (i) and (ii)		
C:-Only (ii)		
D:-All of the above (i)	, (ii) and (iii)	
Correct Answer:- Opti	on-B	
Question2:-A solution with	pH 4 istimes	more acidic than a solution with pH 6
A:-2		
B:-200		
C:-10		
D:-100		
Correct Answer:- Opti		
Question3:-Which of the fo	llowing drugs is not an enzy	/me inhibitor?
A:-Erythromycin		
B:-Pencillin		
C:-siRNA		
D:-Sulfanilamide		
Correct Answer:- Opti	on-C	
Question4:-Identify the pro (i) Fibrous protein (ii) Composed of three ch (iii) Associated with Ehlers		following descriptions:
A:-Collagen		
B:-Hyaluronic acid		
C:-Elastin		
D:-Keratin		
Correct Answer:- Opti	on-A	
Question5:-Enzyme activity	y is measured based on the	intensity of emitted light in method
A:-Colorimetry		
B:-Spectrophotometry	/	
C:-Luminiscence		
D:-Polarimetry		
Correct Answer:- Opti	on-C	
Question6:-Pick the group	of non-polar aminoacids	
A:-Alanine, Leucine, S	erine, Threonine	
B:-Alanine, Leucine, L	ysine, Histidine	
C:-Alanine, Leucine, L	ysine, Arginine	
D:-Alanine, Leucine, I	soleucine, Methionine	
Correct Answer:- Opti	on-D	
Question7:-Which of he fol	lowing serves the purpose of	of locating the radioactive emissions in the process of autoradiography?
A:-Scintillation counte	er	
B:-Photographic Emul	sion	

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Question Paper Code:

	C:-Geiger Muller Co	unte	r
	D:-Illumination scre	en	
	Correct Answer:- Op	ption	В
Que	stion8:-Which organ	elle c	oes not contain nucleic acid?
	A:-Ribosome		
	B:-Mitochondria		
	C:-Golgi Body		
	D:-Chloroplast		
	Correct Answer:- Op	ption	c
Que	stion9:-The plasma p	orote	n that is involved in copper homeostasis is
	A:-Ceruloplasmin		
	B:-Albumin		
	C:-Immunoglobulin		
	D:-Haptoglobin		
	Correct Answer:-Qu	iestic	n Cancelled
Que	stion10:-Which techi	nique	/s can be used for the analysis of nucleic acids?
	PAGE Northern Blotting		
	SDS PAGE Southern Blotting		
	A:-All of the above	(i), (ii), (iii) and (iv)
	B:-Only (i) and (iii)		
	C:-Only (i) and (iv)		
	D:-Only (i), (ii) and	(iv)	
	Correct Answer:- Op		D
Oue			s of antibody with the bighest avidity for antigens:
	A:-lgA		
	B:-lgM		
	C:-IgG		
	D:-lgE		
	Correct Answer:- Op	ntion	D
Ouo			contain 0.36 M sodium acetate (CH3COONa) and 0.036 M acetic acid (CH3COOH),pKa=4.8. What is the pH of this buffer solution?
Que	A:-0	ution	Contain 0.30 M Soulum acetate (Ch3Cooka) and 0.030 M acetic acid (Ch3Coom), pka=4.0. What is the pit of this burier solution:
	B:-4.8		
	C:-5.8		
	D:-7	!	
_	Correct Answer:- Op		
Que		of sh	ift is associated with uv absorption of DNA that is denatured?
	A:-Blue shift		
	B:-Bathochromic sh		
	C:-Hyperchromic sh		
	D:-Hypochromic shi		
	Correct Answer:- Op		
(i) (ii) (iii)		(a) (b) (c)	
	A:-(i)-(b), (ii)-(c), (iii	i)-(a),	(iv)-(d)
	B:-(i)-(d), (ii)-(c), (iii	i)-(a),	(iv)-(b)
	C:-(i)-(a), (ii)-(c), (iii	i)-(b)	(iv)-(d)
	D:-(i)-(a), (ii)-(c), (iii	i)-(d)	(iv)-(b)
	Correct Answer:- Op	ption	В
Que	stion15:-The aminoa	icid tl	nat cannot be found in alpha-helix structure of proteins is

A:-Proline
B:-Glycine
C:-Histidine
D:-Lysine
Correct Answer:-Question Cancelled
Question16:-Which term represents the number of substrate molecules that can be converted to product by a single enzyme molecule per unit time?
A:-Specificity
B:-Catalysis
C:-Specific activity
D:-Turnover number
Correct Answer:- Option-D
Question17:-Which of the following is used to bombard the sample in Mass spectrometry?
A:-Proton
B:-Neutrons
C:-Electrons
D:-Gamma rays
Correct Answer:- Option-C
Question18:-The proteins bound to ion exchange resins can be displaced by altering the
A:-Volume of eluent buffer
B:-lonic strength of eluent buffer
C:-Volume of column
D:-Temperature of eluent buffer
Correct Answer:- Option-B
Question19:-Pick the incorrect statement
A:-Rhodopsin is an intrinsic protein
B:-Transmembrane proteins are integral membrane proteins
C:-Extrinsic proteins are also called peripheral proteins
D:-NADH dehydrogenase is an extrinsic protein
Correct Answer:- Option-D
Question20:-Which of the following diseases is associated with an elevated value of serum Creatine kinase-3 (CK3)?
A:-Brain Ischemia
B:-Kidney Damage
C:-Alcoholic Cirrhosis
D:-Muscular Dystrophy
Correct Answer:- Option-D
Question21:-Serum free fatty acids are found in combination with
A:-Globin
B:-Globulin
C:-Albumin
D:-Fibrinogen
Correct Answer:- Option-C
Question22:-All N-linked oligosaccharides have
A:-Pentasaccharide core
B:-Monosaccharide core
C:-Disaccharide core
D:-Trisaccharide core
Correct Answer:- Option-A
Question23:-Hemoglobin containing two mutant β-globin chain (Hbsβ) moves slowly towards anode during electrophoresis is due to the presence of
A:-Leucine

B:-Isoleucine

C:-Valine
D:-Alanine
Correct Answer:- Option-C
Question24:-All the monosaccharides contain one or more chiral carbon atoms except
A:-Dihydroxyacetone
B:-Glyceraldehyde
C:-Glucose
D:-Fructose
Correct Answer:- Option-A
Question25:-Lipids have specific gravities than water
A:-More
B:-Less
C:-Zero
D:-Equal
Correct Answer:- Option-B
Question26:-Chemical name of Guanine is
A:-2-amino, 6-oxypurine
B:-2-amino, 5-oxypurine
C:-2-amino, 7-oxypurine
D:-3-amino, 6-oxypurine
Correct Answer:- Option-A
Question27:-Number of base pairs per one complete turn of DNA double helix are:
A:-12
B:-10
C:-11
D:-09
Correct Answer:- Option-B
Question28:-A drug inhibits protein synthesis in both prokaryotes and eukaryotes
A:-Chloramphenicol
B:-Cycloheximide
C:-Puromycin
D:-Tetracycline
Correct Answer:- Option-C
Question29:-Prokaryotic transcription start regions are called as
A:-Enhancers
B:-Operators
C:-Promoters
D:-Inducers
Correct Answer:- Option-C
Question30:-Pribnow-Schaller box has a sequence of
A:-TATAAT
B:-ATTATA
D. ALIAIA
C:-TAAATT
C:-TAAATT
C:-TAAATT D:-ATTTAA
C:-TAAATT D:-ATTTAA Correct Answer:- Option-A
C:-TAAATT D:-ATTTAA Correct Answer:- Option-A Question31:-The Hypothesis is used to make
C:-TAAATT D:-ATTTAA Correct Answer:- Option-A Question31:-The Hypothesis is used to make A:-A point

	Correct Answer:-Question Cancelled
Que	stion32:-Non-probability is also known as
	A:-Simple random sampling
	B:-Systematic sampling
	C:-Stratified sampling
	D:-Deliberate sampling
	Correct Answer:- Option-D
Que	stion33:-Precision is the closeness of a
	A:-repeated measurements
	B:-reported measurements
	C:-accurate measurements
	D:-Largest measurements
	Correct Answer:- Option-A
Que	stion34:-The expression of probability density function whose values range from zero to positive infinity is
	A:-Chi-square distribution
	B:-Poisson distribution
	C:-Binomial distribution
	D:-Frequency distribution
	Correct Answer:- Option-A
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Jue	stion35:-X² with n-1 degrees of freedom equivalent to
	A:- $(n-1)\frac{S^2}{\sigma^2}$
	B:- $(n-1)\frac{s^2}{\sigma^3}$
	$C:-(n-1)\frac{s^2}{\sigma^1}$
	D:-(n-1) $\frac{s^1}{\sigma^2}$
	Correct Answer:- Option-A
Que	stion36:-Coefficient of variation is the measure of ratio of stated as a percentage
	A:-mean to the standard deviation
	B:-standard deviation to the median
	C:-median to the standard deviation
	D:-standard deviation to the mean
	Correct Answer:- Option-D
Que	stion37:-The term "biological reference interval" that deemed normal for a healthy person approved by
	A:-ISO 15188
	B:-ISO 15189
	C:-ISO 15187
	D:-ISO 15289
	Correct Answer:- Option-B
Que	stion38:-Reference value of serum creatinine in adult male would be
	A:-0.9-1.2 mg/dL
	B:-0.6-0.9 mg/dL
	C:-1.2-1.5 mg/dL
	D:-0.7-1.0 mg/dL
	Correct Answer:-Question Cancelled
חוים	stion39:-F test result is obtained by calculating the
Jue	
	A:-Between treatment square dividend by residual mean square
	B:-Residual mean square divided by Between treatment mean square

C:-Between treatment square divided by residual square

	D:-Between treatment mean square divided by residual mean square
	Correct Answer:- Option-D
Que	estion40:-The nonparametric method used to compare a single sample with some hypothesized value is
	A:-Mean
	B:-Standard deviation
	C:-Variance
	D:-A sign test
	Correct Answer:- Option-D
Que	stion41:-Which of the following statements regarding Basal Metabolic Rate is incorrect?
	A:-It is the minimum amount of energy required to sustain vital functions during physical rest
	B:-It is the minimum amount of energy required to sustain vital functions during mental rest
	C:-It is the minimum amount of energy required to sustain vital functions during sleep
	D:-Basal Metabolic rate is lower than Resting Metabolic Rate
	Correct Answer:- Option-C
Que	estion42:-Which of the following is an appetite suppressant?
	A:-Neuropeptide Y
	B:-Serotonin
	C:-Ghrelin
	D:-Melanin
	Correct Answer:- Option-B
Que	estion43:-Select the false statement regarding Carcino Embryonic Antigen
	A:-Its plasma level increases with smoking
	B:-Useful for diagnosing localized breast cancer
	C:-Is elevated in 70% of colorectal cancer
	D:-Helpful in diagnosing non-small cell lung carcinoma
	Correct Answer:- Option-B
Que	sstion44:-Which of the following is an oncosuppresser gene?
	A:-c-fos
	B:-bcl 2
	C:-Ras
	D:-p21
	Correct Answer:- Option-D
Que	stion45:-Which of the following vitamin do not have specific role in bone formation?
	A:-Pyridoxal phosphate
	B:-Vitamin K
	C:-Vitamin D
	D:Vitamin C
	Correct Answer:- Option-A
Que	stion46:-All the following are anti-vitamins except
	A:-Linetin
	B:-Tyramine
	C:-Citral
	D:-Avidin
	Correct Answer:- Option-B
Que	sstion47:-The toxin responsible for Epidemic dropsy is
	A:-Vicin
	B:-Thio-oxazolidone
	C:-Beta oxalyl amino alanine
	D:-Sanguinarine
	Correct Answer:- Option-D

Question48:-Which mineral deficiency is characterized by both hematological and neurological manifestations?
A:-Zinc
B:-Copper
C:-Selenium
D:-Molybdenum
Correct Answer:- Option-B
Question49:-Tetany is seen in
A:-Vitamin D deficiency
B:-Hypoalbuminemia
C:-Metabolic alkalosis
D:-None of the above
Correct Answer:- Option-C
Question50:-Which of the following enzyme do NOT require biotin for its action?
A:-Aminoimidazole ribonucleotide carboxylase
B:-Pyruvate carboxylase
C:-Acetyl CoA carboxylase
D:-Propionyl CoA carboxylase
Correct Answer:- Option-A
Question51:-Select the technique that is used for studying gene expression in a tissue
A:-Multiplex PCR
B:-DNA finger printing
C:-Microarray technique
D:-Southern blot technique
Correct Answer:- Option-C
Question52:-Which of the following statement is false regarding innate immunity?
A:-First line of defense against infection
B:-Lymphocytes play a major role
C:-Is less specific
D:-Innate immune responses are uniform in all members of a species
Correct Answer:- Option-B
Question53:-The autoimmune disease where tissue destruction is mediated directly by T cells is
A:-Rheumatoid arthritis
B:-Hashimoto's thyroiditis
C:-Autoimmune hemolytic anemia
D:-Goodpasture's syndrome
Correct Answer:-Question Cancelled
Question54:-Maternal serum Alpha feto protein level is decreased in
A:-Anencephaly
B:-Down syndrome
C:-Cystic hygroma
D:-Meckel syndrome
Correct Answer:- Option-B
Question55:-Which of the following is an RNA directed site specific nuclease?
A:-CRISPER-Cas9
B:-CRE recombinase
C:-S1 nuclease
D:-Flp recombinase
Correct Answer:- Option-A
Question56:-Which of the following is a sulfur containing vitamin?
A:-Thiamine

	B:-Riboflavin
	C:-Pantothenic acid
	D:-Folic acid
	Correct Answer:- Option-A
Que	stion57:-All the following features are true regarding kwashiorkor EXCEPT
	A:-Age of onset is 1-5 years
	B:-Serum albumin is less than 2gm/dL
	C:-Dry and atrophic skin
	D:-Serum cortisol is increased
	Correct Answer:-Question Cancelled
Que	stion58:-Which of the following vector carries the risk of insertional mutagenesis when used in gene therapy?
	A:-Retroviruses
	B:-Adenoviruses
	C:-Plasmids
	D:-Herpes simplex viruses
	Correct Answer:- Option-A
Ques	stion59:-Simultaneous analysis of multiple metabolites in the same blood spot is referred to as
	A:-Second-Tier testing
	B:-Multiplex analysis
	C:-Tandem Mass spectrometry
	D:-Newborn screening
	Correct Answer:-Question Cancelled
Ques	stion60:-The test that is done to assess vitamin B12 absorption is
	A:-Serum methylmalonic acid assay
	B:-Plasma homocysteine assay
	C:-Schilling test
	D:-Deoxyuridine suppression test
	Correct Answer:- Option-C
Que	stion61:-Aspirin is used in the treatment of myocardial infarction since it inhibits platelet aggregation by inhibiting the synthesis of
	A:-Prostacyclin
	B:-Thromboxane
	C:-Leukotriene
	D:-Prostaglandin E
	Correct Answer:- Option-B
Que	stion62:-Refsum disease characterized by vision loss, anosmia ataxia and polyneuropathy is due to defect in
	A:-Fatty acid oxidation
	B:-Fatty acid synthesis
	C:-Glycogenolysis
	D:-Glycogenesis
	Correct Answer:- Option-A
Que	stion63:-The assay of 5 Hydroxy indole acetic acid in urine is useful in the diagnosis of
	A:-Pheochromocytoma
	B:-Von Gierke's disease
	C:-Carcinoid syndrome
	D:-Acute intermittent porphyria
	Correct Answer:- Option-C
Que	stion64:-Pellagra like symptoms is commonly seen in disorders associated with the defect in the metabolism of
	A:-Arginine
	B:-Glycine
	C:-Cysteine

	D:-Tryptophan
	Correct Answer:- Option-D
(i) (ii) (iii)	stion65:-The rate limiting enzymes of gluconeogenesis are Pyruvate carboxylase Pyruvate dehydrogenase Glucose-6-phosphatase Phosphofructokinase
	A:-(i) and (ii)
	B:-(ii) and (iv)
	C:-(i) and (iii)
	D:-(ii) and (iii)
	Correct Answer:- Option-C
Que	stion66:-The type of porphyria associated with the defect in the enzyme uroporphyrinogen decarboxylase is
	A:-Porphyria cutanea tarda
	B:-Congenital erythropoietic porphyria
	C:-Erythropoietic protoporphyria
	D:-Acute intermittent porphyria
	Correct Answer:- Option-A
Que	stion67:-Ochronosis, a condition where black pigments are deposited in cartilage is due to deficiency of the enzyme
	A:-Tyrosinase
	B:-Homogentisic acid oxidase
	C:-Fumarylacetoacetate hydrolase
	D:-Methyl malonyl CoA mutase
	Correct Answer:- Option-B
Que	stion68:-All of the following are types of type II detoxification reactions except
	A:-Oxidation
	B:-Conjugation
	C:-Acetylation
	D:-Sulfation
	Correct Answer:- Option-A
Que	stion69:-Which of the following is not a diagnostic-criteria for a metabolic syndrome?
	A:-Fasting glucose- more than 100 mg/dl
	B:-Triglyceride - more than 150 mg/dl
	C:-HDL-cholesterol - more than 50 mg/dl
	D:-Blood pressure - more than 130/85 mm Hg
	Correct Answer:- Option-C
Que pigr	stion70:-The liver function test parameters for a patient admitted with jaundice is as follows serum total bilirubin - 10 mg/dl, Direct bilirubin - 9.5 mg/dl. Urine: Bile salts and bile nents - positive which of the following enzymes is increased in this patient?
	A:-Amylase
	B:-Alkaline phosphatase
	C:-Lactate dehydrogenase
	D:-Creatine kinase
	Correct Answer:- Option-B
Que	stion71:-Urea reduction ration is used to
	A:-Assess the adequacy of hemodialysis
	B:-Diagnosis of nephrotic syndrome
	C:-Analyze the toxicity of nephrotoxic drugs
	D:-Classify different stages of renal failure
0	Correct Answer:- Option-A
	stion72:-The lab data of a patient's serum sample were as follows: Total Cholesterol: 300 mg/dL, HDL cholesterol: 40 mg/dl and Triglycerides : 200 mg/dL The calculated LDL esterol level for the patient is A:-100 mg/dL
	7. 100 myrac

B:-60 mg/dL

C:-220 mg/dL
D:-40 mg/dL
Correct Answer:- Option-C
Question73:-All of the following enzymes are involved in substrate level phosphorylation except
A:-Pyruvate kinase
B:-Phosphoglycerate kinase
C:-Succinate thiokinase
D:-Phosphoenolpyruvate carboxykinase
Correct Answer:- Option-D
Question74:-Regan isoenzymes is increased in
A:-Carcinoma of lung
B:-Chronic myeloid leukemia
C:-Metastatic carcinoma of prostate
D:-Choriocarcinoma
Correct Answer:- Option-A
Question75:-Ezetimibe reduces blood cholesterol levels by
A:-Inhibiting HMG-CoA reductase
B:-Inhibiting absorption
C:-Activating lipoprotein lipase
D:-Inhibiting lipolysis
Correct Answer:- Option-B
Question76:-Fatty liver can be prevented by
A:-Methionine
B:-Aspartate
C:-Arginine
D:-Lysine
Correct Answer:- Option-A
Question77:-Which of the following statement in NOT TRUE about Levey-Jennings chart?
A:-QC sample should be analyzed for 20 days
B:-Mean and standard deviation are needed to plot the chart
C:-Patient results can be reported when a single control value exceeds the QC limit
D:-12s rule has been widely used by the laboratories
Correct Answer:-Question Cancelled
Question78:-All of the following are types of preanalyltical variables except
A:-Patient identification
B:-Transcription errors
C:-Specimen collection
D:-Water quality
Correct Answer:- Option-D
Question79:-Triple test, commonly used in maternal screening in second trimester include all of the following markers except
A:-Human chorionic gonadotrophin
B:-Unconjugated Estriol
C:-Progesterone
D:-Alpha fetoprotein
Correct Answer:- Option-C
Question80:-Flipped pattern of Lactate dehydrogenase isoenzyme is seen in
A:-Myocardial infarction
B:-Renal failure
C:-Hepatitis
D:-Addison disease

Correct Answer:- Option-A
Question81:-For Covid 19 RT-PCR test mineral used in RTPCR process
A:-Mn
B:-Mg
C:-Zn
D:-Cr
Correct Answer:- Option-B
Question82:-The VLDL, LD: levels increase in blood due to high intake of
A:-Glucose diet
B:-Fructose diet
C:-lactose diet
D:-Starch diet
Correct Answer:- Option-B
Question83:-The elementary composition of the human body (dry weight basis) in %
A:-C 50%, O 20%, H 10%, N 8.5%
B:-C 40%, O 30%, H 8%, N 7%
C:-C 50%, O 10%, H 20%, N 6%
D:-C 50%, O 10%, H 20%, N 12%
Correct Answer:-Question Cancelled
Question84:-Normal chemical composition for a man weighting 65 kg
A:-Protein 17% Fat 13% Carbon 1.5% Water 61.6% Minerals 6.1%
B:-Protein 15% Fat 10% Carbon 2.5% Water 70% Minerals 7%
C:-Protein 12% Fat 15% Carbon 1.5% Water 6.6% Minerals 6.1%
D:-None
Correct Answer:- Option-D
Question85:-A 54-year male presents with acute abdominal pain, no skin photosensitization, large amount of aminolevulinic acid (ALA) and porphobilinogen (PBG) in urine, and symptoms exacerbated by steroids and several other drugs. Which of the following best describes the conditions?
A:-Porphyria cutanea tarda
B:-Acute intermittent porphyria
C:-Porphyria variegata
D:-Hepatic porphyria
Correct Answer:- Option-B
Question86:-A 10-year old boy develops sever diarrhoea while travelling to India. the laboratory blood investigation shows arterial blood pH 7.25; partial pressure of carbon dioxide 24 mm Hg; bicarbinate 10 mEq/L and normal anion gap. Which of the following is correct diagnosis?
A:-Metabolic acidosis
B:-Metabolic alkalosis
C:-Respiratory acidosis
D:-Respiratory alkalosis
Correct Answer:- Option-A
Question87:-A 40-year old woman presented with history of fatigue, easy bruising, bleeding from gums while brushing her teeth and a diffuse rash involving her extremities and trunk that had been present for several days. The deficiency of which of the following is because of her symptoms?
A:-Niacin
B:-Pyridoxine
C:-Pantothenic Acid
D:-Ascorbic acid
Correct Answer:- Option-D
Question88:-A 29-year old man comes to his doctor with symptoms of HIV infection. The doctor orders several confirmatory tests, for one of them a protein sample is taken and is run on electrophoretic gel, causing it to separate by size and charge. The protein was then transferred to a membrane, and labelled antibody is added to allow visualization of this protein. Which of the following tests in described here?
A:-Southern blot
B:-Western blot
C:-Northern blot

D:-South western blot
Correct Answer:- Option-B
Question89:-In cancer patients who have been continuously receiving methotrexate, the target cells of tumor with time become sensitive to his drug. In this case, most commonly gene amplification of the following enzyme is observed:
A:-Dihydrofolate reductase
B:-Thiaminase
C:-Deaminase
D:-Thioredoxin reductase
Correct Answer:- Option-A
Question 90:-A doctor administered allopurinol to a 26-year old young man with symptoms of gout. Which of the following pharmacological action of allopurinol ensures the rapeutic effect?
A:-Inhibiting uric acid synthesis
B:-Increasing uric acid excretion
C:-Inhibiting leucocyte migration in the joints
D:-General anti-inflammatory effect
Correct Answer:- Option-A
Question 91:- A 56-year old man was operated on prostate cancer, three months later he underwent a course of radiotherapy and chemotherapy. The complex of medicinal preparations prescribed to the patient included 5-fluoro-deoxyuridine, which is a thymidylate synthase inhibitor, Which of the following biomolecule's synthesis is blocked by the drug
A:-DNA
B:-mRNA
C:-rRNA
D:-tRNA
Correct Answer:- Option-A
Question92:-A patient with radiation therapy because of brain tumor was prescribed vitamin E and a micro element with antioxidant function. Which of the following can be used for this purpose?
A:-Fluorine
B:-Selenium
C:-Iron
D:-lodine
Correct Answer:- Option-B
Question93:-A 3-year old child comes to the hospital with history of biting his lips and fingers, involuntary movements of upper limb and mental retardation. he has a younger healthy sister. Lab investigations showed high serum uric acid. Which of the following is the most likely diagnosis?
A:-Adenine deaminase
B:-LeschNyhah Syndrome
C:-Orotic aciduria
D:-Fragile X syndrome
Correct Answer:- Option-B
Question94:-A 7-year boy comes to the hospital with yellow discoloration of eyes, decreased apetite and general malaise for last 1 week. She has been passing dark colored urine and high colored faces for the same duration. Lab investigations showed serum total bilirubin 4.5 mg%, direct bilirubin 1.2 mg%, indirect faces 3.3 mg%. liver enzymes are normal. Which of the following is the most likely cause of jaundiced in this patient?
A:-Obtrusive jaundice
B:-Physiological jaundice
C:-Hepatic jaundice
D:-Hemolytic jaundice
Correct Answer:-Question Cancelled
Question95:-A 20-year old male visits dermatology OPD with complaints of increased sensitivity to sunlight causing blistering and crusting of skin only few minutes of sun exposure. Delayed growth and intellectual disability were noticed. Skin biopsy was taken. Which of the following is the most likely diagnosis?
A:-Xeroderma pigmentosum
B:-Pellagra
C:-Vitamin A deficiency
D:-Zinc deficiency
Correct Answer:- Option-A
Question96:-a 20-year old male patient presented with severe abdominal pain with difficulty in fine motor tasks. Lab investigation showed elevated liver enzymes and increased

Question96:-a 20-year old male patient presented with severe abdominal pain with difficulty in fine motor tasks. Lab investigation showed elevated liver enzymes and increased urinary calcium and phosphate Opthalamological examination revealed Kayser Fleischer ring in the cornea. Which of the following is most likely cause of the presenting symptoms in this case?

C:-Selenium deficiency
D:-Zinc excess
Correct Answer:- Option-B
Question97:-A patient is undergoing radiation therapy because of breast cancer. This resulted in increased lipid peroxidation processes. In the course of which active forms of oxyge including superoxide anion radical are formed in the human body. Which of the following enzymes inactivates this anion?
A:-Superoxide dismutase
B:-Glutathione reductase
C:-Peroxidase
D:-Catalase
Correct Answer:- Option-A
Question98:-The Anfinsen's dogma states that
A:-Secondary structure directs in vivo folding
B:-Primary structure directs in vivo folding
C:-Tertiary structure directs in vivo folding
D:-Quaternary structure directs in vivo folding
Correct Answer:- Option-B
Question99:-The maximum buffering capacity occurs at
A:-±1 pH unit on either side of pKa
B:-±2 pH unit of the other side of pKa
C:-Neutral pH
D:-None of the above
Correct Answer:- Option-A
Question100:-The defective DNA base excision repair (BER) is found in
A:-Xeroderma pigmentosm
B:-Bloom syndrome
C:-Mutyh-associated polyposis (MAP)
D:-Heredietary nonpolyposis colorectal cancer (HNPCC)
Correct Answer:- Option-C

A:-Iron deficiency B:-Copper excess