

Ques # :4

The patients excrete milky urine in disorder

- 1) Ketonuria
 - 2) Chyluria
 - 3) Lactosuria
 - 4) Galactosuria
-

Ques # :5

Lysolecithin is formed from lecithin by the action of

- 1) Phospholipase A1
 - 2) Phospholipase A2
 - 3) Phospholipase C
 - 4) Phospholipase D
-

Ques # :6

Which of the following is considered as a diagnostic marker for early apoptotic

- 1) Cardiolipin
 - 2) Gangliosides
 - 3) Cephalin
 - 4) Aryl Sulphate
-

Ques # :7

Allosteric inhibitor of glutamate dehydrogenase enzyme is

- 1) AMP
 - 2) ATP
 - 3) GMP
 - 4) ADP
-

Ques # :8

Ubiquitin is required for

- 1) Lysosomal degradation of proteins
 - 2) Synthesis of ubiquinone
 - 3) Cytosolic degradation of proteins
 - 4) Synthesis of urea
-

Ques # :9

The committed step in biosynthesis of pyrimidine is catalysed by

- 1) dihydrorotase
 - 2) dihydrorotase dehydrogenase
 - 3) Carbamoylphosphate synthetase
 - 4) Aspartate transcarbamoylase
-

Ques # :10

Which of the following has the strongest tendency to gain electrons

- 1) Co Enzyme Q
 - 2) Cytochrome C
 - 3) NAD
 - 4) Oxygen
-

Ques # :11

Acetyl CoA is an allosteric inhibitor of:

- 1) Succinate dehydrogenase
 - 2) Malate dehydrogenase
 - 3) Pyruvate dehydrogenase
 - 4) Isocitrate dehydrogenase
-

Ques # :12

Normal anion gap in plasma is about

- 1) 15 mEq/L
 - 2) 10 mEq/L
 - 3) 5 mEq/L
 - 4) 0 mEq/L
-

Ques # :13

pKa of dehydrogen phosphate is

- 1) 5.8
 - 2) 6.1
 - 3) 6.8
 - 4) 7.1
-

Ques # :14

Hypo-osmotic dehydration is the condition seen in :

- 1) Hypernatremia
- 2) Hyponatremia
- 3) Pulmonary edema

4) All

Ques # :15

Congestive heart failure is characterized by

- 1) Increase plasma volume
 - 2) Decreased plasma volume
 - 3) Increased sodium loss
 - 4) Decreased potassium retention
-

Ques # :16

Osmoreceptors are present in

- 1) Capillaries
 - 2) Aortic arch
 - 3) Carotid sinus
 - 4) Hypothalamus
-

Ques # :17

A:G ration could be reserved in all , EXCEPT

- 1) Acute viral hepatitis
 - 2) Nephrotic Syndrome
 - 3) Cirrhosis
 - 4) Advanced alcoholic liver disorder
-

Ques # :18

Cystatin C is marker for

- 1) Distal tubular function
 - 2) Renin angeotensin system
 - 3) Glomerular function
 - 4) none of them
-

Ques # :19

Ferrochelatase is deficient in

- 1) Acute intermittent porphyria
 - 2) Porphiria cutanea
 - 3) Hereditary corproporphyria
 - 4) Protoporphyria
-

Ques # :20

A person on a fat free carbohydrate rich diet continues to grow obese. Which of the following lipoprotein is likely to be elevated in his blood

- 1) Chylomicrons
 - 2) VLDL
 - 3) LDL
 - 4) HDL
-

Ques # :21

The RDA for lipids per day for normal adults is:

- 1) 20 gms
 - 2) 45 gms
 - 3) 40 gms
 - 4) 50 gms
-

Ques # :22

Hormone response elements are located in:

- 1) Nucleus
 - 2) Mitochondria
 - 3) Cell membrane
 - 4) Cytosol
-

Ques # :23

CD 4 is a transmembrane protein present in

- 1) Plasma cells
 - 2) Cytotoxic C cells
 - 3) Helper T cells
 - 4) Suppressor T cells
-

Ques # :24

Antibodies are classified on the basis of their :

- 1) Size
 - 2) Heavy chains
 - 3) Light chains
 - 4) Idiotypes
-

Ques # :25

The antibody present in lowest concentration in plasma

- 1) Ig E
 - 2) Ig D
 - 3) Ig G
 - 4) Ig A
-

Ques # :26

The genes for the light chains of Immunoglobulins are located on chromosomes

- 1) 2 and 22
 - 2) 2 and 14
 - 3) 2 and 16
 - 4) 2 and 10
-

Ques # :27

Waldenstrom's macroglobulinemia occurs due to increase of

- 1) Ig A
 - 2) Ig M
 - 3) Ig D
 - 4) Ig G
-

Ques # :28

Ciprofloxacin inhibits the synthesis of :

- 1) m RNA
 - 2) DNA
 - 3) t RNA
 - 4) r RNA
-

Ques # :29

Which of the following is not a protein misfolding disorder

- 1) Tuberculosis
 - 2) Alzheimer's disease
 - 3) Cystic fibrosis
 - 4) Prion disease
-

Ques # :30

Which type of RNA has the highest percentage of modified base

- 1) m RNA
- 2) t RNA

- 3) r RNA
- 4) Sn RNA

Ques # :31

The first gene therapy in human was carried out by French Anderson in:

- 1) 1990
- 2) 1970
- 3) 1980
- 4) 1995

Ques # :32

Aging cell will release iron with the help of a copper containing protein called

- 1) Heparidin
- 2) Hephaestin
- 3) Hemosiderin
- 4) Hemopexin

Ques # :33

Which monosaccharide causes sequestering of phosphate in cell

- 1) Glucose
- 2) Fructose
- 3) Ribose
- 4) Galactose

Ques # :34

Amino acid with thio-ether group is

- 1) Cysteine
- 2) Histidine
- 3) Methionine
- 4) Threonine

Ques # :35

Hydrolysis of ATP into ADP and Pi liberates energy of

- 1) 3.4 kcal/mol
 - 2) 5.0 kcal/mol
 - 3) 7.3 kcal/mol
 - 4) 10.3 kcal/mol
-

Ques # :36

Enzyme used as a therapeutic agent

- 1) Asparaginase
 - 2) Gamma glutamyltransferase
 - 3) Taq Polymerase
 - 4) Restriction endonuclease
-

Ques # :37

Which molecular form of vitamine- A has role in skin disease

- 1) Beta-carotene
 - 2) Retinol
 - 3) Retinoic acid
 - 4) Retinal
-

Ques # :38

Peptide linkage is present in which vitamine structure

- 1) Riboflavin
 - 2) Pantothenic acid
 - 3) Biotin
 - 4) Niacin
-

Ques # :39

Iodide pump in thyroid gland functions by:

- 1) Primary active transport system
 - 2) Carrier type transport system
 - 3) Vesicular type transport system`
 - 4) Secondary active transport system
-

Ques # :40

Detoxification of methanol and ethanol is done through

- 1) Hydrolysis
 - 2) Oxidation
 - 3) Reduction
 - 4) Conjugation
-

Ques # :41

Major cause of metabolic acidosis is:

- 1) Overdose of narcotics
 - 2) Potassium deficiency
 - 3) Hepatic failure
 - 4) Diabetic ketoacidosis
-

Ques # :42

Specific Dynamic Action(SDA) is highest for

- 1) Carbohydrates
 - 2) Lipids
 - 3) Proteins
 - 4) Vitamins
-

Ques # :43

Dietary fibers have beneficial effects in:

- 1) Cancers
 - 2) Diabetes mellitus
 - 3) Obesity
 - 4) All of them
-

Ques # :44

Trace metal used for prevention of peroxidation of lipids

- 1) Selenium
 - 2) Chromium
 - 3) Cobalt
 - 4) Molybdenum
-

Ques # :45

Disease associated with impaired synthesis of collagen protein

- 1) Scurvy
 - 2) Alport syndrome
 - 3) Ehlers-Danlos syndrome
 - 4) all of them
-

Ques # :46

Pauly's test is for the presence of

- 1) Histidine
- 2) Arginine
- 3) Tyrosine

4) Tryptophan

Ques # :47

Allopurinol is structural analog of:

- 1) Hypoxanthine
 - 2) Xanthine
 - 3) Uric acid
 - 4) Alloxanthine
-

Ques # :48

Coenzyme that is not a vitamin derivative

- 1) S-adenosyl methionine
 - 2) Lipoic acid
 - 3) Pyridoxyl phosphate
 - 4) Tetrahydrofolate
-

Ques # :49

Hydroxylation of 25-hydroxycholecalciferol by 1- α hydroxylase occurs in :

- 1) Skin
 - 2) Liver
 - 3) Kidneys
 - 4) Intestine
-

Ques # :50

Eating excess raw eggs causes deficiency of

- 1) Riboflavin
 - 2) Niacin
 - 3) Folic acid
 - 4) Biotin
-

Ques # :51

A salivary protein Gusten contains

- 1) Zinc
 - 2) Manganese
 - 3) Selenium
 - 4) Chromium
-

Ques # :52

The tubular maximum for glucose (TmG) is

- 1) .350 mg/min
 - 2) .350 mg/dl
 - 3) .350 mg/ml
 - 4) .350 ml/min
-

Ques # :53

Porphyria inherited as autosomal recessive disorder :

- 1) Erythropoietic protoporphyria
 - 2) Congenital erythropoietic porphyria
 - 3) Acute intermittent porphyria
 - 4) Variegate porphyria
-

Ques # :54

Achlorhydria condition is seen in:

- 1) Zollinger-Ellison syndrome
 - 2) Gastric Carcinoma
 - 3) Pernicious anemia
 - 4) Duodenal ulcer
-

Ques # :55

Water excretion by kidneys is tightly regulated by:

- 1) Aldosterone
 - 2) Epinephrine
 - 3) Oxytocin
 - 4) Vasopressin
-

Ques # :56

In replication the function of following enzyme is comparable with Zip opener

- 1) DNA Liagase
 - 2) DNA Helicase
 - 3) DNA Gyrase
 - 4) DNA topoisomerase
-

Ques # :57

In translation, the number of high energy phosphate bonds used for incorporating a single

amino acid is

- 1) 3
 - 2) 4
 - 3) 5
 - 4) 6
-

Ques # :58

Oncogenic virus which is not a DNA virus

- 1) Adenovirus
 - 2) Papovirus
 - 3) Retro virus
 - 4) Herpes virus
-

Ques # :59

Seperation of molecules in electrophoresis depends on

- 1) Size
 - 2) Charge
 - 3) Magnitude of current
 - 4) All of them
-

Ques # :60

Prostanoids includes all EXCEPT

- 1) Prostacyclins
 - 2) Lipoxins
 - 3) Thromboxanes
 - 4) Prostaglandin
-

Ques # :61

Triple Helix structure is seen in

- 1) Collagen
 - 2) Silk
 - 3) Myoglobin
 - 4) Hemoglobin
-

Ques # :62

Trehalose is :

- 1) Non reducing disaccharide
- 2) Major sugar of insect hemolymph

- 3) Hydrolyzed into two- α glucose molecule
 - 4) All of them
-

Ques # :63

The Phase-I biotransformation includes all reactions except

- 1) Oxidation
 - 2) Conjugation
 - 3) Hydrolysis
 - 4) Reduction
-

Ques # :64

Release of which hormone from endocrine gland is facilitated by calcium ions

- 1) Insulin
 - 2) PTH
 - 3) Calcitonin
 - 4) All of them
-

Ques # :65

Hypoxia Occuring in high altitudes causes

- 1) Metabolic acidosis
 - 2) Respiratory alkalosis
 - 3) Metabolic acidosis
 - 4) Respiratory acidosis
-

Ques # :66

Increased urinary excretion of urobilinogen is observed in

- 1) Hemolytic jaundice
 - 2) Hepatic jaundice
 - 3) Obstructive jaundice
 - 4) All of them
-

Ques # :67

Kidneys regulate electrolyte balance through

- 1) Aldosterone
 - 2) Atrial natriuretic factor
 - 3) Bradykinin and Kallidin
 - 4) All of them
-

Ques # :68

Clinical manifestation of Kwashiorkor includes EXCEPT

- 1) Oedema
 - 2) Diarrhoea
 - 3) Moon face
 - 4) Emaciation
-

Ques # :69

Minamata disease is due to toxicity of:

- 1) Mercury
 - 2) Arsenic
 - 3) Cadmium
 - 4) Lead
-

Ques # :70

Which immunoglobulin mediates primary immune response

- 1) Ig G
 - 2) Ig A
 - 3) Ig M
 - 4) Ig D
-

Ques # :71

High degree of fidelity during replication is maintained by:

- 1) DNA topoisomerase
 - 2) DNA Helicase
 - 3) DNA polymerase
 - 4) DNA ligase
-

Ques # :72

The promoters elements of transcription are present on:

- 1) Template strand
 - 2) Coding strand
 - 3) RNA polymerase
 - 4) hn-RNA
-

Ques # :73

Which one is antioncogene:

- 1) c-ras
 - 2) v-ras
 - 3) c-myc
 - 4) RB1
-

Ques # :74

All the following are glycoproteins EXCEPT:

- 1) TSH
 - 2) Globosides
 - 3) Alkaline Phosphatase
 - 4) Lectins
-

Ques # :75

The property of surface tension is applied in all processes except:

- 1) Digestion and Absorption of fats
 - 2) Exchange of gases in lungs
 - 3) Oedema due to hypoalbuminemia
 - 4) Detections of bile salts in urine
-

Ques # :76

One amino acid may have more than one codon. The property of genetic code is :

- 1) Degeneracy
 - 2) Specificity
 - 3) Universality
 - 4) Unambiguity
-

Ques # :77

Tumour marker associated with carcinoma thyroid gland:

- 1) Alphafetoprotein
 - 2) CA-125
 - 3) Calcitonin
 - 4) Neuron specific enolase
-

Ques # :78

Hormone that causes obesity

- 1) Laptin
- 2) Ghrelin
- 3) Adiponectin

4) PYY-36

Ques # :79

Compound acting as inhibitor of complex-I of electron transport chain

- 1) Malonate
 - 2) Amobarbital
 - 3) Antimycin-A
 - 4) Cyanide
-

Ques # :80

Level of structural organization preserved during denaturation of proteins:

- 1) Primary
 - 2) Secondary
 - 3) Tertiary
 - 4) Quaternary
-

Ques # :81

Cardiolipin is associated with

- 1) Barth syndrome
 - 2) Parkinson's disease
 - 3) Tangier's disease
 - 4) All of them
-

Ques # :82

The nitrogen atoms in urea originates from:

- 1) Ammonia and alanine
 - 2) Ammonia and glutamine
 - 3) Glutamate and aspartate
 - 4) Alanine and aspartate
-

Ques # :83

Barlows disease is due to deficiency of :

- 1) Vitamin-A
 - 2) Vitamin-C
 - 3) Vitamin-K
 - 4) Vitamin-B3
-

Ques # :84

Argentaffinomas in malignant carcinoid are usually seen in cells of :

- 1) Brain
 - 2) Gastrointestinal tract
 - 3) Heart
 - 4) Lungs
-

Ques # :85

The compound providing color to stool is :

- 1) Bilirubin
 - 2) Stercobilinogen
 - 3) Stercobilin
 - 4) Urobilinogen
-

Ques # :86

the amino acid required for the synthesis of Nitric oxide

- 1) Alanine
 - 2) Argininoosuccinate
 - 3) Tryptophan
 - 4) Arginine
-

Ques # :87

Regulatory gene in Lac-operon is:

- 1) Lac-I
 - 2) Lac-Z
 - 3) Lac-Y
 - 4) Lac-A
-

Ques # :88

Inhibition of glycolysis by oxygen is known as:

- 1) Krebs effect
 - 2) Hills effect
 - 3) Cori's effect
 - 4) Pasteur effect
-

Ques # :89

The hormone that stimulates mammatropic and lactogenic action is

- 1) TSH
 - 2) Prolactin
 - 3) LH
 - 4) Progesterone
-

Ques # :90

The Biochemical marker for the assessment of lipid peroxidation is:

- 1) Hydroperoxide
 - 2) Reactive hydrogen species
 - 3) Malondialdehyde
 - 4) Ceruloplasmin
-

Ques # :91

The nucleotide used in the treatment of orotic aciduria is:

- 1) Adenosine
 - 2) Guanosine
 - 3) Thymidine
 - 4) Uridine
-

Ques # :92

Bence Jones protein in urine is detected by:

- 1) FIGLU test
 - 2) Bradshaw's test
 - 3) Hay's test
 - 4) Rothera's test
-

Ques # :93

Which type of solution is used to reduce the intracranial pressure?

- 1) Isotonic
 - 2) Hypotonic
 - 3) Hypertonic
 - 4) Colloidal
-

Ques # :94

Choline plays role in all except

- 1) Transmethylation
- 2) Nerve transmission
- 3) Blood coagulation

4) Lipotropic factor

Ques # :95

In-vitro techniques used for the production of monoclonal antibodies is :

- 1) Recombinant DNA technology
 - 2) Hybridoma technology
 - 3) Polymerase chain reaction
 - 4) ELISA
-

Ques # :96

The most damaging radiation to the tissues are

- 1) Alpha rays
 - 2) Beta rays
 - 3) Gamma rays
 - 4) Radiowaves
-

Ques # :97

Disease related to diffective repair of DNA damage are all except

- 1) Xeroderma pigmentosum
 - 2) Prion Disease
 - 3) Cockayne syndrome
 - 4) Ataxia telangiectasia
-

Ques # :98

Carnitine is sythesized from amino acids

- 1) Lysine and cysteine
 - 2) Lysine and arginine
 - 3) Lysine and glycine
 - 4) Lysine and Methionine
-

Ques # :99

In myocardial infaction serum level of the which LDH enzyme is elevated :

- 1) LDH-1
 - 2) LDH-3
 - 3) LDH-4
 - 4) LDH-5
-

Ques # :100

Vitamin used in the management of hyperlipidemia

- 1) Niacin
- 2) Folic acid
- 3) Cobalamine
- 4) Thymine

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