

- Q23 Energy harvested in the TCA is conserved in the reduced electron carriers such as
- Q24 The conserved energy, in the later stages of TCA, is released and stored as
- Q25 TCA in eukaryotes occurs in the
- Q26 The starting substrate in the TCA is
- Q27 Constant cellular energy balance of the TCA Cycle indicates its nature
- Q28 Replenishing the metabolic intermediates in the TCA cycle indicates its nature.
- Q29 Synthesis of several amino acids in the TCA is from
- Q30 Mobilization of free fatty acids from fat stores is herald through of triglycerides into glycerol and free fatty acids
- Q31 Fatty acid oxidation occurs in the matrix
- Q32 Ketone bodies are products of fatty acid and amino acid __.
- Q33 The enzyme involved in ketogenesis is __.
- Q34 The ketone bodies are composed of
- Q35 Ketone bodies are synthesized and released from .
- Q36 HMG CoA is used for synthesis in the cytosol of many tissues
- Q37 HMG CoA is used for hepatic mitochondrial ketogenesis by an isozyme of .
- Q38 Non pathologic form of ketosis is due to .
- Q39 The group of compounds that have vitamin A activities include
- Q40 Retinoids are cleaved in the mucosa by carotene dioxygenase
- Q41 The digestive enzyme that completes digestion of small peptides within the intestinal mucosal cells is .
- Q42 The pro-enzyme, trypsinogen in converted to active trypsin by
- Q43 Proteolytic enzymes in pancreatic juice include
- Q44 Free Amino Acids are degraded to yield

Q45 An essential minerals with unknown functions is
Q46 Vitamin D is also known as
Q47 Naturally produced vitamin D can be produced in the skin from activation of 7-dehydrocholesterol
Q48 Vitamin E is also known as
Q49 Vitamin has an important role in the synthesis of blood clotting proteins
Q50 Beriberi signals the deficiency of
Q51 Cheilosis signals the deficiency of
Q50 Beriberi signals the deficiency of Q51 Cheilosis signals the deficiency of Q52 Deficiency of folic acid can cause anaemia Q53 Utilization of fatty acids for energy production occurs in
Q53 Utilization of fatty acids for energy production occurs in
Q54 An inhibitor of electron transport chain is
Q55 In the TCA, Oxaloacetate is regenerated through the formation of
Q56 The tricarboxylic acid cycle (TCA) cycle is also known as cycle.
Q57 Under aerobic conditions, complete oxidation of pyruvate releases and H2O.
Q58 The glucose molecule has carbons.
Q59 An enzyme that Transfers a phosphoryl group from ATP to an acceptor is called a .
Q60 Glycolysis degrades to generate ATP.
Q61 Ascorbic acid promotes synthesis of Collagen fibres Nor Epinephrine Amino acids All of the above
Q62 Vitamin do not have any known toxic effects A D E K
Q63 Vitamin A deficiency will lead to

Hypoguesia Growth retardation All of the above Q64 Sources of Vitamin A include Cod liver oil Dark green vegetables Dairy products All of the above Q66 The key enzyme for utilization of ketone bodies is found in tissues.

3rain
Kidneys
Skeletal muscles
None of the above Q67 Disorders of fatty acid oxidation include Carnitine deficiency Jamaican vomiting sickness Ketoacidosis All of the above Q68 The process of β-oxidation of fatty acids includes oxidation of . Fatty acyl coA β-hydroxy derivative Pvruvic acid **Acyl Carnitine** Q69 The carnitine fatty acyl carrier system consists of all but Carnitine acyl transferase 1 Carnitine acyl transferase II Carnitine acyl translocase **Acyl Carnitine** Q70 Mobilization of free fatty acids from fat stores is herald through of triglycerides into glycerol and free fatty acids

Blindness

Ketolysis Lipolysis

Glycogenolysis

pyruvateCarboxylation

Q71 Fatty Acid activation is triggered by all these hormones except Epinephrine Insulin Glucagon Somatostatin Q72 During prolonged fasting, the body source its major metabolic fuel through Q73 Utilization of fatty acids for energy production is absent in Cardiac muscle Skeletal muscles Brain Red Blood Cells Q74 An inhibitor of electron transport chain is Sodium Amytal Rotenone Pericidine A All of the above hepatic All of the above Q75 Beriberi is caused by deficiency of Citrate Riboflavin Thiamine Niacin Q76 Citrate is used for the synthesis of all but Lipids Carbohydrate **Proteins** Amino acids Q77 Synthesis of several amino acids in the TCA is from Isocitrate α-ketoglutarate Oxaloacetate **Fumarate**

Q78 The major source of oxaloacetate in the TCA is ______

Decarboxylation Dehydrogenation Isomerization

Inhibition of Pyruvate dehydrogenase

Q79 In the TCA, Oxaloacetate is regenerated through the formation of

Isocitrate	
α-ketoglutarate	
Oxaloacetate	
Fumarate	
Tamarato	
Q80 The starting sub	es occurs in the
Isocitrate	
α-ketoglutarate	
Oxaloacetate	
Fumarate	
Tumarate	
Q81 TCA in eukaryot	es occurs in the
Cytosol	
Mitochondrion	
Nucleus	
Ribosome	
Ribosome	
Q82 The conserved e	energy, in the later stages of TCA, is released and stored as
ATP	
FADH2	
NADH	40'
AMP	
	ed in the TCA is conserved in the reduced electron carriers
such as	
ATP and Pi	
NADH and FADH2	
ADP and Pi	
AMP	
Q84 TCA is the final	common pathway for the oxidation of
	_ molecules
Protein	
Carbohydrate	
Fat	
All of the above	
Q85 Lactic Acidosis	is a form of metabolic acidosis caused by
Overproduction of Least	
Overproduction of Lacta Underutilization of lacta	
Onderutilization of lacta	ત્રા દ

Q86 Oxidative decarboxylation of Pyruvate in the mitochondria heralds the formation of
Acetyl coA
Pyruvate
Lactate
Ethanol
Ethanor
Q87 The principal entry substrate into TCA cycle and electron transport chain is
Acetyl coA
Pyruvate
Lactate
Ethanol
4.9
Q88 Tricarboxylic acid (TCA) cycle is anpathway.
Strict oxidative
Strict anaerobic
Facultative oxidative
Facultative anaerobic
Facultative oxidative Facultative anaerobic Q89 Hexokinase is allosterically inhibited by
Glucose 6 Phosphate
Pyruvate
Lactate
Ethanol
Q90 Pyruvate kinase is synthesized and secreted by
Liver
Skeletal muscles
A & B
None of the above
Q91 Most of the energy yield in glycolysis is harvested in the
Widst of the ellergy yield in grycorysis is harvested in the
Krebb's cycle
Tricarboxylic acid cycle
Citric Acid Cycle
All of the above
Q92 The breakdown of one molecule of glucose will produce a net yield of molecule of ATP
One
Two
Three
Four
Q93 Clinical conditions that impair glycolysis include

Lactic acidosis
Pyruvate Kinase deficiency A & B
None of the above
Q94 The fate of Pyruvate includes conversion to
Acetyl coA
Ethanol
Lactate
All of the above
Q95 The enzyme catalyzing the committed step (the first irreversible reaction)
in the glycolytic pathway is
Hexosekinase
Phosphofructokinase
Pyruvate kinase Phosphofructokinase
Q96 The rate of Glycolysis is regulated by all the following enzymes except
Hexosekinase
Phosphofructokinase
Enolase
Isoglucokinase
Q97 The breakdown of one molecule of Glucose will yield
molecules of pyruvate
Two
Three
Four Five
Tive
Q98 The final step of production of pyruvate is catalyzed by
2 – phosphoglyceromutase
Enolase
Pyruvate kinase None of the above
Note of the above
Q99 The end product of stage 3 glycolysis is
Lactose
Pyruvate Ethanol
Fructose
Q100 Cellular energy currency is in form of
ATP ADP
· ·

All of the above	
Q101 ATP contains molecules of phosphates Two Three Four Five	
Adenosine Triphosphate Adenine Triphosphate Alanine Triphosphate All of the above Q103 Splitting of Fructose 1, 6 biphosphate is catalyzed by Aldolase Triose phosphate isomerise Hexokinase Phosphofructokinase	
Aldolase Triose phosphate isomerise Hexokinase Phosphofructokinase	
Glyceraldehydes 3-phosphate Fructose 1,6-biphosphate Dihydroxyacetone phosphate None of the above	
Q105 Glyceraldehydes 3-phosphate is a/an sugar. Aldose Ketose Hexose Fructose	
Q106 Glyceraldehyde 3-phosphate contains carbon units Two Three Four Five Q107 The end product of Glycolysis that enters the citric acid cycle is	,
Lactose Pyruvate Glucose Fructose	
Q108 In aerobic organisms, glycolysis preludes Electron Transport Chain	

All of the above Q109 Reactions of glycolysis occur in the _____ Cvtosol Mitochondrion Nucleus Ribosome ks.com Q110 Anaerobic fermentations of glucose lead to formation of CO₂ Pyruvic acid Ethanol NO₂ Q111 In the presence of inadequate oxygen, within active muscles, pyruvate oxidation yields _____ CO₂ Pyruvic acid 02 NO₂ Q112 The breakdown of ATP, catalyzed by Kinases, releases ADP **ASP** ALT **AST** Q113 An allosteric enzyme is Hexosekinase Phosphofructokinase Fructose 6 Phosphate Isoglucokinase Q114 The first step of the first stage of Glycolysis, phosporylation of glucose is catalyzed by Hexosekinase Phosphofructokinase Phosphoglucose Isomerase Isoglucokinase Q115 During the first stage of Glycolysis, phosporylation reaction happens times Once Twice

Tricarboxylic acid cycle

Citric Acid Cycle

Thrice

None	
Q116 The first stage of the glycolytic pathway has reaction steps Two Three Four Five	chemical
Q117 The most energy yielding process of glucose breakdown	
Glycolysis Tricarboxylic acid cycle Pentose Phosphate Pathway Embded Meyerhoff pathway	COX
Glycolysis Tricarboxylic acid cycle Pentose Phosphate Pathway Embded Meyerhoff pathway Q118 Glycolysis yields energy inform of ATP ASP ALT AST Q119 Oxidation of pyruvate occurs in the Cytosol Mitochondrion Nucleus	
Q119 Oxidation of pyruvate occurs in the Cytosol Mitochondrion Nucleus Ribosome	
Q120 The glycolytic pathway can be divided into Two Three Four Five	stages