



PMC TOPIC WISE TEST (UNIT-3)

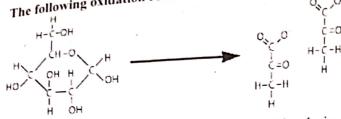
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TOPIC	: Tania Namat Biganaugatias					
	✓ Topic Name: Bioenergetics					
	During flow of electrons in cyclic photophosphorylation, cytochrome complex					
	reduced by:	(D) C1				
	A. Plastocyanin	B Ferrodoxin				
	C. Plastoquinone	D. PS-I				
Q.2	Which of the following structure is form					
	A. Phytol	B. Plastoquinone D. Cytochrome complex				
	C. Plastocyanin	D. Cytochrome complex				
Q.3	Rate limiting enzyme of glycolysis is: A. Phosphofructokinase	B. Succinate dehydrogenase				
	C. Cytochrome a ₃	D. Pyruvate decarboxylase				
0.1	During which product formation in Kr	ebs cycle oxidative decarboxylation occurs:				
Q.4	A. Succinate to Fumarate	B. Fumarate to Malate				
	-C. Alpha ketoglutarate to Succinate	D. Citrate to Isocitrate				
Q.5	It is not a reactant of Calvin cycle direct					
Ų.S	A. CO ₂	B. NADPH				
	C. ATP	D. O ₂				
Q.6	Chemiosmosis in animal cell occurs du	ring:				
Q.o	A. Substrate level phosphorylation	B. Krebs Cycle				
	C. Respiratory chain	D. Photophosphorylation				
Q.7	Carotenoids can least absorb col	lor:				
	A. Blue	B. Green				
	C. Violet	D. Red				
Q.8	The proton donor in bacterial photosy	nthesis is:				
	A. Water	B. Sulphur B. Hudragen Sulphide				
	C. Ammonia	D. Hydrogen Sulphide				
Q.9	Site of CO ₂ fixation in photosynthetic	B. Grana				
	A. Thylakoids	D. Cytoplasm				
	C. Stroma During photophosphorylation, each pl					
Q.10		B. 3				
	A. 1 C. 2	D. 4				
0.11		of:				
Q.11	A. O ₂	B. ATP				
		D. All A, B, C				
Q.12	f = hotogymthasis	is oxidized and is reduced:				
Q.17	A. CO ₂ and water	B. Water and INADI				
	C. Water and CO2	D. NADPH ₂ and CO ₂				
Q.13	to the team has tained with	B. Starch				
	A. Glucose	D. Fructose				
	C. Cellulose	ound of light reaction for:				
Q.1	C. Cellulose Dark reaction requires reduced comp	B. Formation of hexose sugar				
	A. Carboxylation of RUBP	D. Reduction of 1.3 RPG				
	C. Regeneration of RUBP	respiration takes place in the cytoplasm of				
Q.1	5 Which pathway for acrobic condition	August Marin				
	eukaryotic cell?	B. Pyruvic acid oxidation				
	A. Glycolysis C. Krebs cycle	D. Electron transport chain				
Λ1	A A SE MOOD IN COMMINE LESS	oiration:				
Q.1	A. NADP ⁺	B . 1418-11.				
	C. NAD ⁺	D. Flavin				
7.	D V 12 THE PROPERTY OF LEGICAL COLUMN SECTION SECTION SECTION (1997) 전쟁 경찰					

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The following oxidation reaction is termed as:



- A. Digestion

- B. Glycolysis
- D. Glyoxylate cycle

Q.18 When yeast breaks glucose in the presence of oxygen, the products obtained are: B. Water and CO₂

A. Ethanol and water

C. Ethanol and CO2

D. Lactic acid

Q.19 During respiratory chain of cellular respiration, cytochrome c oxidizes:

A. Cytochrome a

B. Cytochrome b

C. Cytochrome a3

D. Cytochrome a complex

Q.20 During the complete breakdown of glucose, substrate level phosphorylation occurs during:

- A. Lactic acid fermentation
- B. Krebs cycle
- C. Pyruvic acid oxidation
- D. Electron transport chain

Q.21 Product of phosphofructokinase is:

- A. Glucose 6-phosphate
- B. Fructose 1, 6-Bisphosphate

C. Acetyl-coA

D. Glyceraldehyde 3-phosphate

NADH:

Q.22 Oxidative phosphorylation takes place in:

A. All types of cells

B. All aerobic cells

C. All primitive cells

D. All anaerobic cells

Q.23 A fatty acid having 12 carbons would produce B. 12 A. 10

C. 18

D. 6

Q.24 Before entering Krebs cycle, the pyruvate is decarboxylated into:

A. α-ketogluteric acid

B. Glyceric acid

C. Citric acid

D. Acetic acid

Q.25 The term "Z scheme" is used for:

- A. Non-cyclic photophosphorylation
- B. Oxidative phosphorylation
- C. Cyclic photophosphorylation
- D. Both A and C

Q.26 Carotenoids are present in/at --of chloroplast:

A. Stroma

B. Ribosomes

C. Envelope

D. Thylakoids

Q.27 Main difference between phosphoglyceric acid and glyceraldehyde-3-phosphate:

- A. Number of carbon molecules
- B. Number of molecules

C. Reduction

D. Site of formation

Q.28 Conversion of

- facilitates FAD reduction: B. Succinate, fumarate
- A. α-ketoglutarate, succinate C. Fumarate, malate

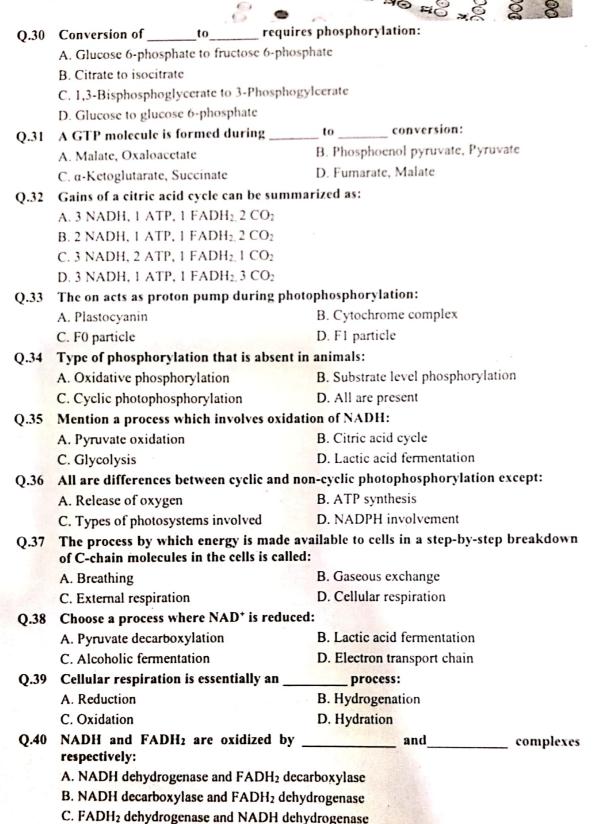
Q.29 Phosphofructokinase is inhibited by:

- A. High concentration of NADH
- D. Isocitrate, α-ketoglutarate

- C. High concentration of ATP
- B. Low concentration of citrate
- D. Pyruvate decarboxylase

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D. NADH dehydrogenase and FADH2 dehydrogenase





What correctly represents different stages of aerobic respiration?

What correctly represents			EADU.	CO ₂	
	ATP by Substrate level phosphorylation	NADH	FADH ₂	COI	
A.	6	10	2	6	
B.	4	8	1	8	
	2	12	2	4	
C.	2	10	4	6	
D.	. 0	10		l	

0.42	Bacteriochlorophylls	can	be	present	in	all	except:

A.	Green	al	gae

B. Blue green algae

C. Purple sulphur bacteria

D. Purple non-sulphur bacteria

Q.43 An electron carrier without containing any metal:

A. Plastocyanin

B. Cytochrome complex

C. Ferrodoxin

D. Plastoquinone

Q.44 The membranes which are used during chemiosmosis in eukaryotic cell include:

A. Cristae, Thylakoid membranes

B. Cristae, Cell membrane

C. Cisternae, Cell membrane

D. Inner and outer nuclear membranes

Q.45 Pick a process where carbon fixation takes place:

A. Pyruvate oxidation

B. Glycolysis

C. Respiratory chain

D. Calvin Cycle

Q.46 An enzyme not involved in addition of phosphate in its substrate:

A. Glucokinase

B. Hexokinase

C. Phosphatase

D. Phosphofructokinase

Q.47 Name the structure that allows the movement of protons and produces energy currency of cell:

A. ATP synthase

B. Cytochrome reductase

C. NADH dehydrogenase

D. Cytochrome oxidase

Q.48 This reaction is not catalyzed by Isomerase:

A. Glucose-6-phosphate to fructose-6-phosphate

B. DHAP to G₃P

C. 1, 3 bisphosphoglycerate to 3 phosphoglycerate

D. 3 phosphoglycerate to 2phosphoglycerate

Q.49 ATP required for synthesis of maltose through photosynthesis:

A. 18

B. 36

C. 9

D. 180

Q.50 Primary fuel for cellular activities:

A. Pyruvate

B. Glycogen

C. Glucose

D. Acetyl CoA

Bisenesgetis 41-A 21-B 31- (, ILD 1-13 42-A 32-A 22_B 12-B 2-A 43-D 23-C 33-B 13-B 3-A 44-A 34-C 24-D 14-D 4-C 45-10 35-D 25-A 15-A 5-D 46-C 36- B. 26-D 16-C 6-0 37-D 47-A 27-C 17-B 7-D 38- A 48-6 28-B 18- B R-D 39-6 49-B 29- C 9-13 9-1 50-C 40-D 30-D 20- B