

MDCAT Biology Chapter 2 Bio-energetic Online Test

Sr	Questions	Answers Choice
1	In this process pyruvic acid is not used as substrate	A. Alcoholic fermentation B. Calvin cycle C. Aerobic respiration D. Lactic acid fermentation
2	In this process a carbon dioxide molecule is released	A. Lactic acid fermentation B. Alcoholic fermentation C. Glycolysis D. Hydrolysis of glycogen
3	Fermentation is	A. Incomplete oxidation of proteins B. Complete oxidation of carbohydrates C. Aerobic respiration D. Incomplete oxidation of carbohydrates
4	Components of respiratory electron transport chain are	A. 2 B. 3 C. 4 D. 5
5	The site for oxidative phosphorylation in mitochondria	A. Mitochondrial matrix B. Outer compartment C. F1 particles D. Cristae
6	Cytochrome b is oxidized by ____ in respiratory chain	A. Coenzyme Q B. Cytochrome c C. Cytochrome a D. Oxygen
7	Number of ATPs produced by aerobic respiration in bacteria	A. 38 B. 36 C. 34 D. 32
8	In a respiratory chain, each NADH produce ____ATPs	A. 1 B. 2 C. 3 D. 4
9	The final acceptor of electrons in respiratory chain is	A. Cyt. a B. Cyt. a ₃ C. Water D. Oxygen
10	Most of the energy in the cell is liberated by oxidation of carbohydrates when	A. Glucose is converted into alcohol and CO ₂ B. Sugar is converted into pyruvic acid C. Pyruvic acid is converted into CO ₂ and H ₂ O D. Pyruvic acid is converted into CoA
11	It is universal hydrogen acceptor	A. ATP B. FMN C. CoA D. NAD
12	Which of the following oxidizes malate to oxaloacetate in kreb's cycle?	A. ATP B. NAD ⁺ C. NAD ⁺ D. FAD

13	Pick up 5 carbon compound	A. Oxaloacetate B. RuBP C. Ketoglutarate D. Both b and c
14	Indirect ATP is formed during the production of ____ in krebs cycle	A. Isocitrate > B. Succinate> C. Citrate D. Malate
15	Number of NADH molecules formed in Krebs cycle starting from one molecule of glucose	A. 6 B. 3 C. 2 D. 1
16	In Krebs cycle hydration occurs during the conversion of	A. Citrate into isocitrate B. Malate into fumarate C. Citrate into malate D. Fumarate into malate
17	In krebs cycle, oxidation takes place in the formation of ____ without decarboxylation	A. Succinate B. Ketoglutarate C. Malate D. Fumrate
18	Which part of mitochondria is the site of link reaction and kreb's cycle and contains the enzymes needed for these reactions?	A. Outer membrane B. Matrix > C. Inner membrane D. Crista
19	How many molecules of ATP would be utilized for phosphorylation of one glucose molecule during glycolysis?	A. Five > B. Four> C. Three> D. Two
20	In Glycolysis the net gain is 2 ATP and 2 molecules of	A. $\text{NADH}_{2\text{}}$ B. $\text{FADH}_{2\text{}}$ C. $\text{FMNH}_{2\text{}}$ D. FAD