

MDCAT Biology Chapter 6 MCQ's Test

| Sr | Questions | Answers Choice |
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| 1 | When equal intensities of light are given, photosynthesis is maximum in ____ part | A. Blue B. Orange C. Red D. Violet |
| 2 | Very first product formed from carbon fixation in a calvin cycle | A. Unstable 3C compound B. Unstable 6 Carbon compound C. Stable 3C compound D. Stable 6C compound |
| 3 | Number of ATPs required to phosphorylate RuP molecules in calvin cycle | A. 3 B. 5 C. 6 D. 9 |
| 4 | Fermentation is | A. Incomplete oxidation of proteins B. Complete oxidation of carbohydrates C. Aerobic respiration D. Incomplete oxidation of carbohydrates |
| 5 | The site for oxidative phosphorylation in mitochondria | A. Mitochondrial matrix B. Outer compartment C. F1 particles D. Cristae |
| 6 | 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 |
| 7 | Light absorbing part of chlorophyll is | A. Phytol B. Magnesium C. Pyrrole D. Porphyrin |
| 8 | Which of the following is incorrect about action spectrum | A. It tells effectiveness of light B. Valley is broad C. Peaks are broad D. It is indicated by consumption of CO ₂ |
| 9 | Light dependent reaction takes place in ____ of chloroplasts | A. Stroma B. Envelope C. Thylakoids D. Lumen |
| 10 | Spectrum which shows the effectiveness of absorbed light | A. Absorption B. Action C. Emission D. Affective |
| 11 | Cytochrome b is oxidized by ____ in respiratory chain | A. Coenzyme Q B. Cytochrome c C. Cytochrome a D. Oxygen |
| 12 | In this process a carbon dioxide molecule is released | A. Lactic acid fermentation B. Alcoholic fermentation C. Glycolysis D. Hydrolysis of glycogen |
| 13 | Which of the following oxidizes malate to oxaloacetate in kreb's cycle? | A. ATP B. NADP ⁺ C. NAD ⁺ D. FAD |
| 14 | Color of chlorophyll b is | A. Blue green B. Yellow green C. Orange red D. " |

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| | | D. Yellow orange |
| 15 | Iron containing proteins which act as carriers in ETC | A. Plastoquinine B. Cyt. complex C. Plastocyanin D. None |
| 16 | Where Photophosphorylation takes place in chloroplast? | A. Stroma B. Inner membrane C. Outer membrane D. Granum |
| 17 | Number of NADH molecules formed in Krebs cycle starting from one molecule of glucose | A. 6 B. 3 C. 2 D. 1 |
| 18 | The most abundant protein in nature is | A. RuBP B. Rubisco C. Ribulose biphosphate carboxylase D. Both B and C |
| 19 | 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 |
| 20 | Oxidative phase of glycolysis starts with the dehydrogenation of | A. G3P B. DHAP C. Both D. NADH |