# MDCAT Biology Chapter 7 MCQ's Test

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | Succinic acid differs from malonic acid by | A. OH<br>B. CH<sub>2</sub><br>C. CH<sub>3</sub><br>D. CHO |
| 2 | Which of the following helps in recognition of substrate | A. Active site<br>B. Catalytic site<br>C. Binding site<br>D. All |
| 3 | The competitive inhibitor competes with the | A. Enzyme<br>B. Cofactor<br>C. Substrate<br>D. Coenzyme |
| 4 | The optimum temperature for most of the enzymes in human body is | A. 37 <sup>o</sup>C<br>B. 35<sup> o</sup>C<br>C. 37 <sup>o</sup>F<br>D. 98.6<sup> o</sup>C |
| 5 | Both ____ and ____ are detachable cofactors | A. Apoenzyme, holoenzyme<br>B. Activator, coenzyme<br>C. Coenzyme, prosthetic group<br>D. Prosthetic group, activator |
| 6 | At high substrate level, all the active sites of enzyme are | A. Destroyed<br>B. Available<br>C. Degenerated<br>D. Occupied |
| 7 | _____form the raw material for coenzyme | A. Nucleic acid<br>B. Lipids<br>C. Vitamins<br>D. Proteins |
| 8 | Which one of the following enzymes have slightly acidic pH as optimum pH? | A. Sucrase<br>B. Enterokinase<br>C. Pepsin<br>D. Catalase |
| 9 | The inhibitor having structural similarity with substrate is | A. Irreversible inhibitor<br>B. Reversible inhibitor<br>C. Competitive inhibitor<br>D. Noncompetitive inhibitor |
| 10 | Optimum pH of all human enzymes is | A. Variable<br>B. Same<br>C. Acidic<br>D. Alkaline |
| 11 | Enzymes present in human body generally have | A. Same optimum temperature and optimum pH<br>B. Same optimum temperature but different optimum pH<br>C. Same optimum pH but different optimum temperature<br>D. Different optimum temperature and optimum pH |
| 12 | Formation of ES complex activates the_____ site of an enzyme | A. Active<br>B. Binding<br>C. Catalytic<br>D. Allosteric |
| 13 | Urine is preferably used as a vehicle for biotechnology product than: | A. Blood<br>B. Milk<br>C. Plasma<br>D. Tissue fluid |
| 14 | About three billion base pairs are present in the genome of a | A. Horse<br>B. Dog<br>C. Man<br>D. Monkey |

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| 15 | If non protein part is covalently bonded to the protein part of enzyme, it is known as | A. Coenzyme<br>B. Prosthetic group<br>C. Activator<br>D. Cofactor |
| 16 | The specificity of enzymes is due to their | A. High molecular weight<br>B. pH sensitivity<br>C. Hydrogen bonding<br>D. Surface configuration |
| 17 | Succinic acid is the ____ of succinic dehydrogenase which undergoes____ | A. Active site, reduction<br>B. Prosthetic group, reduction<br>C. Substrate, oxidation<br>D. Substrate, reduction |
| 18 | Following substances can act as inhibitors, except | A. Cyanide<br>B. Antimetabolites<br>C. Antibodies<br>D. Poisons |
| 19 | Inorganic ions can play a role of ¬¬¬¬¬¬¬_____ in enzyme catalysis | A. Coenzyme<br>B. Inhibitor<br>C. Apo enzyme<br>D. Cofactor |
| 20 | Allosteric enzymes have ___ major sites | A. 1<br>B. 2<br>C. 3<br>D. 4 |