* **EDUTAINERS**

**Series – I Specialist of Sciences Date: 13/01/17**

**Bio T3 Ch # 2(Remaining) 1st year Time: 15 min Marks: 11**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Objective**

***Question No. 1 A B C D***

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| --- | --- | --- | --- | --- | --- |
| 1 | **Optimum PH of Enteroleinase enzyme is** | 4.50 | 5.50 | 6.80 | 7.60 |
| **2** | **Which of following is competitive inhibitor of succinic dehydrogenase enzyme** | Malonic acid | Fumaric | Succinic acid | B & c |
| **3** | **Enzymatic reaction rate doubles for each \_\_\_\_ C0  rise in temperature** | 05 | 10 | 30 | 100 |
| **4** | **Who first time discovered nucleic acid** | M.Wilkins | E.Chargaf | Koshland | F.Miescher |
| **5** | **Most cellular secretions are** | Glycolipids | Glycoproteins | Lipoprotein | Nucleoprotein |
| **6** | **Amino acids are arranged in proper sequence during proteins synthesis according to the instruction transcribed on** | Transfer RNA | Ribosomal RNA | Messenger RNA | DNA |
| **7** | **Active site of enzyme consist of** | Hundred of aminoacid | Few aminoacid | Few Nucleotides | Hundred of Nucleotide |
| **8** | **Whice one is the first organism whose genome is completely sequenced** | Candida albicans | E.Coli | Paramyxovirus | Haemophilus influenzae |
| **9** | **The rate of an enzyme – catalyzed reaction** | Is constant all conditions | Decreases as substrate concentration increase | Can be reduced by inhibitors | Cannot be measured |
| **10** | **Nicotinamide adenine dinucleotide is important** | Protein | Coenzyme | Enzyme | Prosthetic group |

**Subjective**

**Q No 2: short question (2x11=22)**

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| --- | --- | --- |
| **1** | Differentiate b/w Holoenzyme and Apoenzyme | **2)** What is lock and key model and who proposed it |
| **3** | write down the effect of slight ptl changes in enzyme | **4)** draw the structural formula of a nucleotide |
| **5** | What is contribution of Erwin chargaif in DNA field | **6)** What is conjugated molecule explain with an example |
| **7** | Write down the feature of scale model of DNA | **8)** What is the effect of substrate concentration on the rate of enzyme action |
| **9** | Enlist the important characteristics of enzymes | **10**) write down discovery and occurrence of different types of nucleic acid |
| **11** | Differentiate b/w prosthetic group and co-enzyme |  |

**Q no. 3: Subjective (Long Questions) 4 + 5 = 9**

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| **1** | 1. What is RNA ? Write a detailed note on its types 2. Write a note on inhibitors of enzymes   ا |