2006 NATIONAL INSTITUTE OF TECHNOLOGY B.TECH III SEMESTER MID TERM EXAMINATIONS BIO CHEMISTRY (CHEMICAL ENGINEERING)

TIME: 2 HOUR MARK: 60

Answer All The Questions

1] What do you mean by Holoenzyme, apoenzyme and cofactors? Explain any two factors affect ing enzyme activity.

2] How is Km determined by Lineweaver-Burn double reciprocal plot method ?

3] Explain the salient features of active site in enzymes.

4] Illustrate competitive inhibition of enzyme.

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5] Describe substrate strain theory to explain enzyme catalyzed reactions.

6] Write the structure of vitamin C and explain any two functions of it in the animal body.

7] Write structure of retinol. Explain briefly any two biological functions of retinol.

8] Why is vitamin E called 'a vitamin in search of a disease' ? Explain the role of it in blood clotting process.

9] What is TPP ? Write briefly on any two functions of it in the body.

10.Write the structure of FMN and FAD. Write an account on structural changes during oxidation and reduction of it.