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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

**M.Tech**

**FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)**

**(Subjective Type)**

**Subject Code: AMTBT0215**

**Subject: Enzyme Technology & Industrial Application**

**Max. Mks. : 30**

**Time : 50 Minutes**

**General Instructions:**

*All questions are compulsory.*

*Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.*

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Write down the differences between competitive and non-competitive inhibition?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	Write down the differences between competitive and uncompetitive inhibition?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	Write down the differences between non-competitive and uncompetitive inhibition?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	What is binary fission?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	What is generation time?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	What is doubling time?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	How biomass is measured in fermenter?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	Write difference between modern and traditional bioprocess engineering?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
9	What is simplex design in media optimization?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
10	Name the factors that affect the two phase extraction?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	What is the importance of rheology in filtration?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	How filter aids help in filtration?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	Name any three enzyme that are used in pharma and health care sector?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	How enzyme can be used to produce amino acid?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	How is enzyme used to produce glutamic acid?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant