Roll No

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)

(Objective Type)

Subject Code: AMTBT0215 Subject: <u>Enzyme Technology & Industrial Application</u>

General Instructions:

All questions are compulsory.

Question No- 1 to 5 are objective type question carrying 2 marks each.

Question No- 6 to 20 are also objective type/Glossary based question carrying 2 marks each.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Туре	Difficulty	Correct	Option1	Option2	Option3	Option4
1	Which of the following reaction is catalyzed by Lyase?		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	Breaking of bonds	Breaking of bonds	Formation of bonds	Intramolecular rearrangement of bonds	Transfer of group from one molecule to another
2	Which of the following enzyme catalyzes the first step of glycolysis?		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	Hexokinase	Hexokinase	Pyruvate kinase	Glucokinase	Phosphofructokinase-1
3	The highest feasible temperature for batch sterilization is		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	121°C	124°C	120°C	122°C	121°C
4	In chromatography, the stationary phase can be supported on a solid.		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	Solid or liquid	Solid or liquid	Liquid or gas	Solid only	Liquid only
5	Which of the following enzyme hydrolysis casein?		Single Choice Questions	Single Choice Questions	2	Single Choice	Smart	Rennet	Papain	Rennet	Alkaline protease	Trypsin
6	is the function of enzyme, Peptidase		Glossary I	Glossary I	2	Single Choice	Brilliant	Cleave amino bonds	Interconversion of L and D stereoisomers	Breaking of bonds	Cleave amino bonds	
7	reaction is catalyzed by Lyase.		Glossary I	Glossary I	2	Single Choice	Brilliant	Breaking of bonds	Interconversion of L and D stereoisomers	Breaking of bonds	Cleave amino bonds	
8	is catalyzed by Racemases		Glossary I	Glossary I	2	Single Choice	Brilliant	Interconversion of L and D stereoisomers	Interconversion of L and D stereoisomers	Breaking of bonds	Cleave amino bonds	
9	Regulation of metabolic pathway is done by		Glossary II	Glossary II	2	Single Choice	Brilliant	Feedback inhibition	Availability of oxygen	Feedback inhibition	Maillard reaction	
10	is not an enzyme-catalyzed reaction in metabolism		Glossary II	Glossary II	2	Single Choice	Brilliant	Maillard reaction	Availability of oxygen	Feedback inhibition	Maillard reaction	
11	metabolic pathway follows		Glossary II	Glossary II	2	Single Choice	Brilliant	Availability of oxygen	Availability of oxygen	Feedback inhibition	Maillard reaction	
12	The destruction of microorganisms by moist heat is described by		Glossary III	Glossary III	2	Single Choice	Brilliant	First order	First order	Degradation	Decrease	
13	The long exposure of batch sterilization may lead to		Glossary III	Glossary III	2	Single Choice	Brilliant	Degradation	First order	Degradation	Decrease	
14	The Del Factor decreases as the initial number of organisms		Glossary III	Glossary III	2	Single Choice	Brilliant	Decrease	First order	Degradation	Decrease	
15	Electrophoresis can used to purify		Glossary IV	Glossary IV	2	Single Choice	Brilliant	DNA or protein	DNA or protein	Sterilization	Chromatography	
16	is come under Upstream processing.		Glossary IV	Glossary IV	2	Single Choice	Brilliant	Sterilization	DNA or protein	Sterilization	Chromatography	

Max. Mks. : 40 Time : 70 Minutes

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Туре	Difficulty	Correct	Option1	Option2	Option3	Option4
17	is come under downstream processing.		Glossary IV	Glossary IV	2	Single Choice	Brilliant	Chromatography	DNA or protein	Sterilization	Chromatography	
18	is used in dishwashing and destarching.		Glossary V	Glossary V	2	Single Choice	Brilliant	α-amylase	α-amylase	washing cotton fabrics	Alcalase	
19	Fungal cellulase is used in detergents which help in		Glossary V	Glossary V	2	Single Choice	Brilliant	washing cotton fabrics	α-amylase	washing cotton fabrics	Alcalase	
20	enzyme is used for removing stubborn strains.		Glossary V	Glossary V	2	Single Choice	Brilliant	Alcalase	α-amylase	washing cotton fabrics	Alcalase	