

University of Mumbai
Online Examination 2020

Program: TE Chemical Engineering

Curriculum Scheme: Revised 2016(Choice Based)

Examination: Third Year Semester VI

Course Code: CHDE6023

Course Name: Biotechnology (Elective)

Time: 1 hour

Max. Marks: 50

Note to the students:- All Questions are compulsory and carry equal marks .

Q1.	How many molecules of ATP are formed per molecule of oxidation of glucose?
Option A:	12
Option B:	24
Option C:	36
Option D:	48
Q2.	Protein kinases are responsible for transferring which group?
Option A:	oxygen
Option B:	carbon
Option C:	amino
Option D:	phosphate
Q3.	Which of the following is not a factor determining the activity of an enzyme?
Option A:	Association with regulatory protein
Option B:	Sequestration
Option C:	Allosteric regulation
Option D:	Nucleotides
Q4.	This cell organelle does not contain DNA
Option A:	Nucleus
Option B:	Mitochondria
Option C:	Lysosomes
Option D:	Chloroplast
Q5.	Casein, the protein of milk is an example of
Option A:	Enzymatic proteins

Option B:	Storage proteins
Option C:	Structural proteins
Option D:	Transport proteins
Q6.	Which of the following is a phospholipid
Option A:	Sterol
Option B:	Cholesterol
Option C:	Lecithin
Option D:	Steroid
Q7.	Which of the following is an example of micronutrient
Option A:	Carbon
Option B:	Hydrogen
Option C:	Nitrogen
Option D:	Calcium
Q8.	Which of the following is an example of macronutrient
Option A:	Calcium
Option B:	Iron
Option C:	Carbon
Option D:	Sodium
Q9.	Which one of the following nucleotide bases is not found in RNA
Option A:	Adenine
Option B:	Thymine
Option C:	Guanine
Option D:	Cytosine
Q10.	Which of the following support/carrier is not used in the covalent bonding method?
Option A:	Phenol rings
Option B:	Thiol groups
Option C:	Carbonyl groups
Option D:	Hydroxyl groups
Q11.	Which of the following is not a method of immobilization?
Option A:	Entrapment
Option B:	Ionic bonding
Option C:	Adsorption
Option D:	Encapsulation
Q12.	Which of the following bond/interaction is not involved in adsorption?
Option A:	Covalent bond
Option B:	Ionic interaction
Option C:	Hydrogen bond

Option D:	Van der Waals forces
Q13.	Which enzyme is used in making Baby Foods?
Option A:	Amylase
Option B:	Rennin
Option C:	Trypsin
Option D:	Liginase
Q14.	What is the clinical application of monoclonal antibodies?
Option A:	Biosensors
Option B:	Transplant rejection
Option C:	Infectious disease
Option D:	Purification of drugs
Q15.	Sometimes the required mRNA is present in less number. So the process of increasing the representation of rare mRNAs is called as _____
Option A:	Amplification
Option B:	Normalization
Option C:	Selection
Option D:	Narrowing
Q16.	What are antibiotics?
Option A:	Nutrient supplements
Option B:	Anti-cancer drugs
Option C:	Anti-microbial drugs
Option D:	Anti-ulcer drugs
Q17.	Plant tissue culture technique is a redefined method of _____
Option A:	Hybridization
Option B:	Vegetative propagation
Option C:	Asexual reproduction
Option D:	Selection
Q18.	Which enzyme is useful in genetic engineering?
Option A:	DNAase
Option B:	Amylase
Option C:	Lipase
Option D:	Restriction endonuclease
Q19.	Which of the following is related to genetic engineering?
Option A:	Mitochondrion
Option B:	Golgi apparatus
Option C:	Lysosome
Option D:	Plasmid

Q20.	In which of the following industrial area biotechnology is applicable?
Option A:	Health care
Option B:	Aerospace
Option C:	Information technology
Option D:	Automobile
Q21.	Immunoaffinity chromatography is used for the purification of _____
Option A:	Lipoproteins
Option B:	Interferons
Option C:	Antibodies
Option D:	Carbohydrates
Q22.	Chromatography is used to separate _____
Option A:	Complex mixture compounds
Option B:	Simple mixtures
Option C:	Viscous mixtures
Option D:	Halogens
Q23.	Which of the following stationary phase is not used in gel filtration chromatography?
Option A:	Sephadex
Option B:	Sephacryl
Option C:	Bio-Gel
Option D:	Resin beads
Q24.	Amino acids are the building blocks for
Option A:	Lipids
Option B:	Proteins
Option C:	Carbohydrates
Option D:	DNA
Q25.	Immunoaffinity chromatography is used for the purification of
Option A:	Lipoproteins
Option B:	Interferons
Option C:	Antibodies
Option D:	Carbohydrates

University of Mumbai
Online Examination 2020

Program: TE Chemical Engineering

Curriculum Scheme: Revised 2016(Choice Based)

Examination: Third Year Semester VI

Course Code: CHDE6023

Course Name: Biotechnology (Elective)

Time: 1 hour

Max. Marks: 50

Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	C
Q2.	D
Q3.	D
Q4	C
Q5	B
Q6	B
Q7	D
Q8.	C
Q9.	B
Q10.	C
Q11.	B
Q12.	A
Q13.	C
Q14.	D
Q15.	B
Q16.	C
Q17.	B
Q18.	D
Q19.	D
Q20.	A
Q21.	D
Q22.	A
Q23.	D
Q24.	B
Q25.	C