University of Mumbai Online Examination 2020

Program: BE Chemical Engineering

Curriculum Scheme: Revised 2012(CBSGS)

Examination: Final Year Semester VIII

Course Code: CHE805

Course Name: Biotechnology(Elective)

Time: 1 hour Max. Marks: 50

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

Q1.	Which of the following is NOT a carbohydrate	
Option A:	Sucrose	
Option B:	Glycogen	
Option C:	Glycine	
Option D:	Cellulose	
Q2.	Some plants have nitrogen-fixing bacteria in their root nodules. What are these	
	bacteria called?	
Option A:	Blue green algae	
Option B:	Nitrosomonas	
Option C:	Azotobacter	
Option D:	Rhizobium	
Q3.	is used for the production of alcohol and wine.	
Option A:	Yeast	
Option B:	Mosquito	
Option C:	Ant	
Option D:	Algae	
Q4.	The production of secondary metabolites requires the use of	
Option A:	Meristem	
Option B:	Protoplast	
Option C:	Axillary buds	
Option D:	Cell suspension	
Q5.	The primary structure of a protein involves	
Option A:	Disulfide linkage	

Option B:	Hydrogen bond	
Option C:	Peptide linkage	
Option D:	Hydrophobic forces	
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Q6.	The nucleic acid synthesis takes place in	
Option A:	3'-5' direction	
Option B:	5'-3' direction	
Option C:	straight direction	
Option D:	Any one direction	
Q7.	The first enzyme that reduces nitrates into nitrites and ammonia in plants is	
Option A:	Nitrate reductase	
Option B:	Nitrite reductase	
Option C:	Glutamine synthetase	
Option D:	Glutamate dehydrogenase	
Q8.	Which of the following is an inorganic material used as support?	
Option A:	Pectin	
Option B:	Gelatin	
Option C:	Ceramics	
Option D:	Alginate	
Q9.	Who invented the process of producing monoclonal antibodies in 1975?	
Option A:	Albert Einstein	
Option B:	Watson and Creek	
Option C:	Georges Köhler and César Milstein	
Option D:	Robert Hook	
0.10		
Q10.	The first transgenic plant to be produced is	
Option A:	Brinjal	
Option B:	Tobacco	
Option C:	Rice	
Option D:	Cotton	
Q11.	Which of the following is not a macromolecule	
Option A:	Protein	
Option B:	Starch	
Option C:	nucleotide	
Option C. Option D:	DNA	
Option D.	DIVIS	
Q12.	The building blocks for lipids are	
Option A:	Fatty acid and glycerol	
Option B:	Fatty acid and amino acid	
Option C:	Amino acid and nucleotide	
Option D:	Glycerol and nucleotide	
opnon D.	Cly Tells and Americans	

Q13. The chemical union of the basic units of carbohydrates, lipids, or proteins a produces the byproduct Option A: Carbon Option B: Energy Option C: Acid Option D: Water Q14. What is the clinical application of monoclonal antibodies? Option A: Biosensors Option B: Transplant raisetion	always
Option B: Energy Option C: Acid Option D: Water Q14. What is the clinical application of monoclonal antibodies? Option A: Biosensors	
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Option A: Biosensors	
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Option D. Transplant rejection	
Option B: Transplant rejection	
Option C: Infectious disease	
Option D: Purification of drugs	
Q15. Which of the following stationary phase is not used in gel fi	ltration
chromatography?	
Option A: Sephadex	
Option B: Sephacryl	
Option C: Bio-Gel	
Option D: Resin beads	
Q16. Which enzyme is used in making Baby Foods?	
Option A: Amylase	
Option B: Rennin	
Option C: Trypsin	
Option D: Liginase	
Q17. Penicillin is produced by	
Option A: aerobic fermentation	
Option B: anaerobic fermentation	
Option C: aerobic fermentation followed by anaerobic fermentation	
Option D: anaerobic fermentation followed by aerobic fermentation	
Q18. Which type of cell actually secrets antibodies?	
Option A: plasma cells	
Option B: T cells	
Option C: Macrophages	
Option D: Dendritic cells.	
Q19. The molecule which acts directly on an enzyme to lower its catalytic	rate is
Option A: Repressor	
Option B: Inhibitor	
Option C: Modulator	

Option D:	Regulator	
Q20.	The two strands of DNA are held together by bonds of	
Option A:	Nitrogen	
Option B:	Hydrogen	
Option C:	Oxygen	
Option D:	Carbon	
Q21.	The first hormone artificially produced by bacteria is	
Option A:	Insulin	
Option B:	Thyroxin	
Option C:	Adrenalin	
Option D:	Testosterone	
Q22.	Which of the following is the main application of embryo culture	
Option A:	Clonal propagation	
Option B:	Production of embryoids	
Option C:	Induction of somaclonal variations	
Option D:	Overcoming hybridization barriers	
Q23.	Which of the following is not a method of immobilization?	
Option A:	Entrapment	
Option B:	Ionic bonding	
Option C:	Adsorption	
Option D:	Encapsulation	
Q24.	Immunoaffinity chromatography is used for the purification of	
Option A:	Lipoproteins	
Option B:	Interferons	
Option C:	Antibodies	
Option D:	Carbohydrates	
Q25.	What principle is used in electrodialysis?	
Option A:	Magnetic field and permeable membranes	
Option B:	Electric field and cation selective membranes	
Option C:	Electric fields and anion selective membranes	
Option D:	Electric fields and ion selective membranes	

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Question	Correct Option
	(Enter either 'A' or 'B'
	or 'C' or 'D'
Q1.	C
Q2.	D
Q3.	A
Q4	D
Q5	C
Q6	C D A D A D C B A C C C C B B C C A D D C A D D D D C A A B
Q7	A
Q8.	C
Q9.	C
Q10.	В
Q11.	C
Q12.	A
Q13.	D
Q14.	D
Q15.	D
Q16.	C
Q17.	A
Q18.	A
Q19.	В
Q20.	В
Q21.	A
Q1. Q2. Q3. Q4 Q5 Q6 Q7 Q8. Q9. Q10. Q11. Q12. Q13. Q14. Q15. Q16. Q17. Q18. Q19. Q20. Q21. Q22. Q23. Q24. Q25.	B A D
Q23.	B C D
Q 24 .	С
Q25.	D