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## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2023	
https://pharmacyindia.co.in/ Course : B. Pharmacy Subject Name : Pharmaceutical Biotechnology Max Marks : 75  Date: 08/01/2024  Sem: VI Subject Code : BP605T Duration : 3 Hr.	
Instructions:  1. All questions are compulsory https://pharmacyindia.co 2. Draw diagrams / figures wherever necessary 3. Figures to right indicate full marks	o.in/
Q. 1. Objective Type Questions (Answer all the questions)	$(10 \times 2) = 20$
Draw neat labelled diagram of structure of immunoglobulin.  What are mutants? Give their examples. https://pharmacyindia.co.in/  Differentiate between genetic organization of eukaryotes and prokaryotes.  Define biotechnology. Give its scope in pharmaceutical sciences.  State the uses of microbes in industry.  What are the functions of DNA ligase and restriction endonucleases?  Write the importance of aeration and stirring in fermentation.	
Tansformation and transduction.	
Differentiate between cellular and humoral immunity.	
What is cold chain storage? State the storage conditions of vaccines.	
(Answer 2 out of 3) https://pharmacyindia.co.in/	$(2 \times 10) = 20$
iii) Illustrate the principle of rDNA technology with neat labelled diagram. Give the deta human insulin production by rDNA technology.  Explain the production and purification of monoclonal antibodies by hybridoma technology.	ailed account on
i) Explain in detail ELISA technique with neat labelled diagram.	$(7 \times 5) = 35$
mastrate the design of large scale production fermenter and explain its various control	S.
Explain the Collection and Storage of whole human blood. Extend the note on plasma	substitutes
iv) Give comparative explanation of hypersensitivity reactions.	substitutes.
v) Explain the structure and functions of Major Histocompatibility Complex (MHC).	
Write a note on Polymerase Chain Reaction (DCD)	
Explain the principle and methods of protein engineering.	
wiii) Explain the methods of enzyme immobilization.	
Write a note on cloning vectors in rDNA technology.	
END OF THE PAPER	

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