

C.U.SHAH UNIVERSITY

Winter Examination-2022

Subject Name: Pharmaceutical Biotechnology - Theory

Subject Code: BP605T

Branch: B.Pharm

Semester: 6

Date: 23/09/2022

Time: 11:00 To 02:00

Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-I Explain in brief:** **[2X10]=20**
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|------------------------|-----|
| a) Lipase | [2] |
| b) Substrate | [2] |
| c) Western blotting | [2] |
| d) Biosensor | [2] |
| e) ELISA | [2] |
| f) Antigen | [2] |
| g) Hormone | [2] |
| h) Fermentation | [2] |
| i) Genetic engineering | [2] |
| j) Humoral immunity | [2] |
- Q-II Attempt any two from the following:** **[2X10]=20**
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|--|------|
| a) Detail discussion on Recombinant DNA (rDNA) technology. | [10] |
| b) Explain general method of the preparation of bacterial vaccines. | [10] |
| c) Describe Griseofulvin production, isolation and recovery by fermentation with the help of flow chart. | [10] |
- Q-III Attempt any seven from the following:** **[7X5]=35**
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|--|-----|
| a) Write a note on production of Enzyme Amylase. | [5] |
| b) Define the term antibodies? Write a note on Immunoglobulins. | [5] |
| c) Define the term enzyme immobilization and explain any two techniques. | [5] |
| d) Write a note on PCR. | [5] |
| e) Explain hybridoma technology. | [5] |
| f) Discuss Microbial genetic method of conjugation. | [5] |
| g) Explain a large scale fermenter with suitable diagram. | [5] |
| h) Write a note on whole human blood and its storage. | [5] |
| i) Differentiate between transformation and transduction. | [5] |

