

(Turn Over)

(2)

Write about different microbial isolation, pure culture, maintenance and preservation techniques used in industrial setup.

Unit-II

3. Define photo-bioreactor and write different parameters and measurements to control photo-bioreactors.

OR

Explain details of batch, fed-batch and continuous bioreactors.

Unit-III

4. Write brief account of different techniques used for product recovery in industries.

OR

Explain various methods of cell immobilization and their importance in bioprocess engineering.

Unit-IV

5. Explain industrial method of ethanol production, its mechanism, purification and its importance.

OR

(3)

Write different methods of food preservation
and give a brief idea of canning and
packaging.
