| | | 210 | 210 | | 210 | 210 | | 210 | 210 | | 210 |
|--|---|----------|--|---------------|-------------|---------------------------|-------------|---------------|-----------|--------------------|------|
| | Registration No : | | | | | | | | | | |
| | Total Number of Page : 01 P | | | | | | | | | B.Tech. CBT4306 | |
| | | | | | | k Examinati | | | | | |
| | | 210 | 210 | DOWNST | | | | RING | 210 | | 210 |
| | BRANCH : BIOTECH Time : 3 Hours | | | | | | | | | | |
| | | | | | - | Marks : 70 | | | | | |
| | Q.CODE : C484 | | | | | | | | | | |
| | | | Answer Quest | | | | | | | - | |
| | | | Iner | - | - | hand margi f a questio | | | - 210 | | 04.0 |
| | | 210 | 210 | | | | n at a pi | | 210 | | 210 |
| | Q1. | | Answer the fol | | | | | | | (2 x 10) | |
| | | a) | Write the imp Differentiate bet | | in bioproc | essing? | | | | | |
| | | b) | Explicate the ro | | | | | 6. | | | |
| | | c) | Define the term | | ation and a | heamtice | | | | | |
| | | d) e) | Distinguish between adsorption and absorption. Explain the role of drying curve in bioprocessing. | | | | | | | | 210 |
| | | f) | Write any two d | | | Ų | า? | | | | |
| | | g) | Write the princip | | | atagraphyta | hniquon | n | | | |
| | | h) i) | What are the dif Differentiate bef | | | | | | | | |
| | | j) | What is salting of | | | • | - |) - I- J | | | |
| | Q2. | a) | Explain about d | | | methods that | t help in o | • | | (5) | |
| | | b) | Write a note ² on | microfiltrati | on.10 | 210 | | 210 | 210 | (5) | 210 |
| | Q3. a) Explain in detail about ultrafiltration. | | | | | | | | | (5) | |
| | | b) | Write in detail a | bout the aq | ueous two | -phase extrac | ction proc | cess | | (5) | |
| | Q4. | a) | Explain the prin | | | | | | | (5) | |
| | | b) | Describe the me | embrane ba | ased separa | ation process | 6. | | | (5) | |
| | Q5. | a) | Write the princip | | • | | | 210 | 210 | (5) | 210 |
| | | b) | Describe the or disruption | different typ | pes of ph | ysical metho | ods that | are used | in cell | (5) | |
| | | | distuption | | | | | | | | |
| | Q6. | a) | Deliberate detai | | | | for preci | pitation of p | protein. | (5) (5) | |
| | | b) | Write a note on | theory of Co | entinugatio | 11. | | | | (5) | |
| | Q7. | 210 | What do you ur | | | HPLC? Disc | uss the v | | nciple of | (10) | 210 |
| | HPLC with a neat diagram. | | | | | | | | | | |
| | Q8. | | Write short answer on any TWO : | | | | | | | (5 x 2) | |
| | | a) b) | Cryopreservatio Electrodialysis | n | | | | | | | |
| | | c) | Adsorption chro | | у | | | | | | |
| | | d) | Liquid-liquid ext | raction | | | | | | | |
| | | 210 | 210 | | 210 | 210 | | 210 | 210 | | 210 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |