

- 15(b) Present an overview of recent techniques used in the purification of cephalosporin antibiotics. (13) 5 4

PART- C (1 x 15 = 15 Marks)

(Q.No.16 is compulsory)

- | | Marks | CO | RBT
LEVEL |
|--|-------|----|--------------|
| 16 Monoclonal antibodies (mAbs) have realized their potential over the last 20 years, with successful applications in a range of major therapeutic areas, including the treatment of breast cancer. In fact, they are the largest and fastest growing class of biological drugs today. As a result, there is high demand for solutions that will deliver efficient, flexible, and cost-effective mAb purification. Increases in upstream titers mean that downstream processes must gear up too. Higher titers mean a higher number of impurities is likely, and these need to be separated from the target molecule. So what is the most effective way to optimize purification? Justify your answer. | (15) | 5 | 5 |