

## FirstRanker.com upload\_cef87d591a184f966cbd36e97e88 Firstranker: choice and his winfive project Health Science com Rajiv Gandhis winfive project Health Science com First Year M.Pharm Degree Examination - May 2013

[Time: 3 Hours] [Max. Marks: 100]

## PHARMACEUTICAL BIOTECHNOLOGY - II

(RS 2 & RS 3)

Q.P. CODE: 9314

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

## LONG ESSAY (Answer any FOUR)

 $4 \times 25 = 100 \text{ Marks}$ 

- Discuss about the applications of enzymes in pharmaceutical industry and in clinical analysis. Write in detail about the production of takadiastase. (10 + 15 = 25)
- Write about the kinetics of immobilized enzyme. Discuss about the multistep immobilized 2. enzyme systems and add a note on applications of enzyme engineering. (10 + 15 = 25)
- Describe in detail about the biosynthesis of Streptomycin and Glutamic acid. (13 + 12 = 25)3.
- 4. Write about the application of techniques of genetic engineering. Describe in detail about the production of insulin. (10 + 15 = 25)
- Discuss about the diagnostic tests for malaria. Write about sequence data for comparisions. 5. (13 + 12 = 25)
- Write about the current status of development of vaccines for HIV and plasmodium. 6. 25 www.riretRear\*\*\*\*