

FirstRanker.com Firstranker!s choise Rajiv Gandhi Wnfivenskey of Health Scienceson First Year M.Pharm Degree Examination - Nov 2011

[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 X 25 = 100 Marks

- Write notes on:
 - a) Importance of bioinformatics
 - b) Interleukins
 - c) Urokinase

(10+7+8=25)

- a) Write a note on isolation and purification of enzymes
 - b) Enzyme immobilization methods
 - c) Pregnancy test

(10+10+5=25)

- a) Explain the biosynthesis of Tetracyeline
 - b) Write the applications of Genetic engineering in biotechnology
- Explain the techniques involved and significances of monoclonal antibodies and plant cell culture
- 5. a) Discuss current state of vaccines for HIV and malaria.
 - b) Discuss the application of enzyme engineering
 - c) Host cells on gene cloning.

(7+8+10 = 25)

- a) Biosynthesis of vitamin B12 6.
 - b) Discuss the vaccine production in developing countries