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Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination - MAY 2016

Time: Three Hours

ADVANCES IN DRUG DELIVERY SYSTEM (RS 2 & RS 3)

Q.P. CODE: 9284

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

LONG ESSAYS (Answer any Two)

- List out various controlled release oral drug delivery systems and explain influence of 1. various physicochemical factors that must be, considered in their design.
- 2. Explain the advantages and disadvantages of sustained release formulations and discuss about diffusional systems.
- Write various approaches for parenteral controlled release drug delivery systems and 3. discuss about Nanoparticles.

SHORT ESSAYS (Answer any Five)

- 4. Discuss about biodegradable and natural polymers.
- 5. Write about pulmonary drug delivery systems.
- 6. Explain the preparation and characterization of liposomes.
- 7. Describe the in vivo methods for buccal absorption.
- 8. Discuss about formulation aspects ocular controlled drug delivery systems.
- Discuss about factors influencing permeation through skin. 9. .t.

SHORT NOTES

- 10. Permeation enhancers
- **Copper Intra Uterine Devices** 11.

 $2 \times 20 = 40$ Marks

Max. Marks: 100 Marks

 $5 \times 10 = 50$ Marks

 $2 \times 5 = 10$ Marks