Total No. of Questions : 4]

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M.Pharmacy (Semester - I & II) STERILE PRODUCTS FORMULATION & TECHNOLOGY (2013 Pattern)

Time : 3 Hours]

Instructions to the candidates :

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- Q1) Explain physico-chemical, formulation considerations in small volume parenterals. [10]

Q2) Solve any three :

- a) Explain the design concept of filling area in sterile product manufacturing unit.
- b) Explain the liposomes as drug delivery system.
- c) What are different parenteral irrigating solutions? Explain the fundamentals for peritoneal dialysis solutions.
- d) Explain the possible hazards associated with parenteral therapy.
- Q3) Write short notes on (any three) :
 - a) Manufacturing of freeze dried sterile product.
 - b) Glass as packaging material for sterile products.
 - c) Industrial autoclaving.
 - d) FFS and BFS technology.
- Q4) Explain the GMP requirements related to premises, sanitation, hygiene and personnel in sterile manufacturing units. [10]

OR

What are the limitations in ophthalmic drug delivery systems? Write a note on ocular inserts.

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QuestionKaka.com

[Max. Marks : 50

[15]

[15]

SEAT No. :