Total No. of Questions : 6]

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[5049]-101 F.Y. B.Pharmacy PHARMACEUTICS - I (2013 Pattern) (Semester - I)

Time: 3 Hours [Max. Marks: 70

Instructions to the candidates:

- 1) Answers to the two Sections should be written in separate books.
- 2) Neat diagram must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.

SECTION - I

Q1) Attempt any one:

a) What are the various branches of Pharmaceutics? Write the scope of pharmaceutical engineering. [10]

OR

b) Write the history of pharmacy profession and industry in India, also write a note on career opportunities after pharmacy graduation.

Q2) Attempt any Five:

[15]

- a) What is Pharmacopoeia? Add a note on Indian Pharmacopoeia.
- b) Write the principles of Unani as alternative system of medicine.
- c) Write the classification of dosage forms.
- d) Describe ayurvedic system of medicine.
- e) Enlist the different routes of drug administration.
- f) What are excipients? Explain the different flavours used in pharmaceuticals.
- g) Define drug, write the different sources of drug with suitable examples.

Q3) Write short note (any two):

[10]

- a) Pharmacy code of ethics.
- b) USP.
- c) Preservative used in pharmaceuticals.
- d) Ayurvedic Pharmacopoeia.

SECTION - II

Q4) Attempt any one:

a) What are solution? Explain various methods to improve the solubility of poor water soluble drug. [10]

OR

b) Write in detail account of bulk characterisation in preformulation study. Add a note on importance of pH and pK_a in it.

Q5) Attempt any Five:

[15]

- a) Differentiate between syrup and Elixir.
- b) Write methods of preparation of Aromatic water.
- c) Discuss formulation of thorat paints.
- d) Enlist various IPQC and quality control tests for solution.
- e) Justify the statement "Preformulation is key step in pharmaceutical product development".
- f) Explain factor affecting the rate of solution.
- g) Give the importance of particle size as preformulation parameter.

Q6) Write short notes (any two):

[10]

- a) Raw material control of quality variation.
- b) Enema.
- c) Concept of preformulation.
- d) Factor affecting the stability of pharmaceutical product.

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