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B.A./B.Sc.(General)-6th Semester**Industrial Chemistry**

Paper-B: Pharmaceuticals

Time allowed: 3 Hours

Max. Marks: 75

Note: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I-IV.

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UNIT - I

- I. Discuss the aseptic conditions required for sterilisation and various methods of which it is brought about. (15)
- II. Discuss in detail: -
- (a) Colouring agents
 - (b) Preservations
 - (c) Lubricants (15)

UNIT - II

- III. Write brief notes on: -
- (a) Moisture content and extractive value of crude drugs
 - (b) Storage of medicinal plants
 - (c) Surgical sutures (3×5)
- IV. Discuss in detail the steps involved in pharmaceutical packaging. (15)

UNIT - III

- V. Discuss raw materials required, process of manufacture, effluent handling for following bulk drugs:
- (a) Furazolidine
 - (b) Sulphemethoxazole (15)
- VI. Discuss in detail any three chemical plant constituents used in Pharmaceuticals. (15)

UNIT-IV

- VII. Discuss the raw materials, process of manufacture effluent handling of any three:
- (a) Vitamin A
 - (b) Propranolol
 - (c) Chloro Pheniramine maleate
 - (d) Methyl dope
- VIII. Discuss the enzyme catalysed transformation manufacture of ephedrine. (15)

UNIT - V

- IX. Write brief notes on: -
- (a) Development of Indian Pharmacopoeia
 - (b) Introduction of USP and NF
 - (c) Surgical dressings
 - (d) Classification of various drugs with examples
 - (e) Isolation procedure for Saponin (5×3)

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