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Total No. of printed pages = 5

PY 132601

Roll No. of candidate



B. Pharm. 6th Semester End-Term Examination

PHARMACEUTICS - V

(Pharmaceutical Technology - II)

Full Marks – 100 Pass Marks – 35 Time – Three hours

The figures in the margin indicate full marks
for the questions.

1. Answer any *ten* of the following questions in brief : 3×10=30
 - (a) What are the advantages and limitations of parenteral preparation over the oral preparations ? 3
 - (b) Enlist the parenteral additives used for preparation of parenteral products. 3
 - (c) How are the ophthalmic solutions sterilized ? 3

[Turn over

(d) Enlist the different tests conducted on a finished aerosol preparation. 3

(e) What are the names and chemical structures of propellant 12, 114 and 11 ? 3

(f) What are the common buffer systems used in the preparation of ophthalmic solutions ? 3

(g) Give the essential characteristics of a good liquid shampoo. 3

(h) Give the packaging and labelling requirements of dental care and skin care products. 3

Or

(i) What is the significance of aseptic processing of parenteral formulations ?

(j) Give the types of glass containers with their specific uses for packaging different types of formulations. 3

(k) Enlist the official tests to be performed on the elastomers to be used for closures and components of pharmaceutical packaging. 3

(l) Name the propellant in aerosol formulations. 3

2. Answer any *eight* of the following questions :

5×8=40

- (a) Give a short description of Blister packaging of solid dosage forms. 5
- (b) Describe the LAL test. 5
- (c) Describe the test for limit of alkalinity of whole ampoules as specified in the I.P. 5
- (d) Describe the I.P. test for sterility of injections. 5
- (e) Give the sources of contamination in a "clean room" and ways to eliminate the same. 5
- (f) Give an account of the different types of preservatives used in small volume parenterals. 5
- (g) Give the different methods for obtaining a "particulate matter free" eye drop. 5
- (h) Write in brief the application of Rault's Law during design of suitable aerosol formulation. 5

- (i) Classify the ingredients used in the formulation of toothpaste giving examples of each class.

5

3. Answer the following questions : $10 \times 3 = 30$

- (a) Describe the formulation of a 3-phase aerosol system. How is cold filling of aerosol done ? $5 + 5 = 10$

Or

Describe the tests to be carried out on finished parenteral preparations. Describe the environmental control technique which may be used for processing parenteral products. $5 + 5 = 10$

- (b) (i) Describe the functions of cleansing creams and lotions. Name the ingredients of liquefying anhydrous type of cleansing cream. 5

- (ii) What should be the characteristics of stain dyes and stain solvents used in lipsticks. Give the composition of Bromomixture used in the formulation of Lipsticks. 5

(c) (i) Enlist the quality control tests performed on the polymeric material used in the construction of containers for pharmaceuticals. Explain the test for determination of rate of transmission of water vapour through plastic containers. 3+4=7

(ii) Give the requirements specified for child-resistant packaging. 3