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Total No. of Questions : 5] *[Total No. of Printed Pages : 2*

Roll No.....

PY - 804 (A)

B.Pharmacy VIII Semester

Examination, June 2016

Packaging Technology

(Elective - I)

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Define the concept of packaging.
   b) Enlist various materials used in packaging.
   c) Discuss various factors affecting selection of packaging.
   d) Discuss glass as packaging material.

   OR

   Discuss plastics as packaging material.

2. a) Mention the merits of plastics over glass materials.
   b) Give the composition of rubber closures.
   c) Explain the term tightly closed container, well closed container and hermetically sealed container.
   d) Give an overview of aerosol container and collapsible tubes.

   OR

   Discuss about containers, closures and liners with suitable examples.

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3. a) Define child resistant packaging.
   b) Explain about tape seals.
   c) Give the method of Blister packaging preparation.
   d) Describe Form Fill Seal (FFS) technology along with its applications.

   OR

   Elaborate testing of temper evident packaging and strip packaging.

4. a) Mention various defects of packaging materials.
   b) Define bubble packs and shrink seals.
   c) How will you perform testing of formed packs?
   d) Discuss the quality control tests for container as per Indian pharmacopoeia.

   OR

   Discuss the quality control tests for closures as per Indian pharmacopoeia.

5. a) Justify the necessity of regulatory requirements for packaging.
   b) Explain storage conditions for packaging materials.
   c) What do you understand by legal and regulatory requirements of labeling as per drug and cosmetics act.
   d) Discuss the cGMP requirement for handling and distribution of packaging.

   OR

   Write an ideal layout (format) for product/patient information literatures.

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