

(LQ 2052)

MARCH 2020

Sub. Code: 2052

**B.PHARM. DEGREE EXAMINATION**  
**PCI Regulation – SEMESTER V**  
**PAPER II – INDUSTRIAL PHARMACY – I**

*Q.P. Code: 562052*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Give an account of the Physico-chemical characteristics of drugs in Preformulation studies and explain its importance.
2. Explain the types, formulation and evaluation of both suspensions and emulsions.
3. Define parenteral products with examples. Write the formulation considerations, method of preparation, labeling procedures and evaluation of eye drops.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Quality control tests for capsules.
2. Formulation of lyophilized sterile products.
3. Packaging materials used in pharmaceutical preparations.
4. Ideal properties of shampoo.
5. Preparation of cold cream.
6. Types of aerosol systems.
7. Pellets.
8. BCS classification and its importance.
9. Coating materials.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Methods of coating.
2. Stability of dosage forms.
3. Organoleptic additives.
4. Sizes of hard gelatin capsules.
5. Composition and uses of syrup.
6. Preservatives used in sterile preparations.
7. Composition of lipsticks.
8. Alu-Alu pack.
9. Define aerosols.
10. Inert gases.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0921]

SEPTEMBER 2021  
(SEPTEMBER 2020 EXAM SESSION)

Sub. Code: 2052

B.PHARM. DEGREE EXAMINATION  
PCI Regulation 2017 – SEMESTER V  
PAPER II – INDUSTRIAL PHARMACY – I

*Q.P. Code: 562052*

Time: Three hours

Maximum: 75 Marks

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Explain about the production of hard gelatin capsule.
2. Write in detail about the manufacturing defects of tablets.
3. Describe the quality control test to be carried out for pharmaceutical aerosols.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Sugar coating process.
2. Physical factors of drug that affect stability of dosage form.
3. Define pyrogens. Describe pyrogen test.
4. Wet granulation Method and its limitations.
5. Define a dosage form. Give the classification of dosage form.
6. Explain the different additives used in parenteral formulations.
7. Shampoo.
8. Syrups.
9. Explain the identification tests for emulsion type.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Slugging.
2. Importance of tablet coating.
3. Organoleptic additives.
4. Types of aerosol systems.
5. Name the enteric coated polymers.
6. Labeling method of eye preparations.
7. Diluents.
8. Components of a rotary punching machine
9. Types of stability studies.
10. Importance of hardness test on tablet.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 0122]**

**JANUARY 2022  
(MARCH 2021 EXAM SESSION)**

**Sub. Code: 2052**

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)**

**PCI Regulation 2017 – SEMESTER V**

**PAPER II – INDUSTRIAL PHARMACY – I**

***Q.P. Code: 562052***

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions.**

**(2 x 10 = 20)**

1. Define tablet, classify them. Describe in detail about excipient used and evaluation tests for tablets.
2. Explain the production procedures and production facilities of aseptic processing in the formulation of Injectables.
3. Explain the production of hard gelatin capsules and filing, finishing and quality control tests.

**II. Write notes on: Answer any SEVEN questions.**

**(7 x 5 = 35)**

1. Physical properties of drugs in preformulation studies.
2. Sterilization procedures of large volume parenterals (LVP).
3. Types of packaging material and its importance.
4. Tooth pastes.
5. Propellants used in pharmaceutical aerosols.
6. Coating of tablets and its application.
7. Additives used in Liquid dosage forms.
8. Formulation of eye drops.
9. Ideal properties of coating materials.

**III. Short answers on: Answer ALL questions.**

**(10 x 2 = 20)**

1. Bloom strength.
2. Types of suspensions.
3. Define Elixirs.
4. IPQC tests.
5. Diluents.
6. Aseptic conditions.
7. Polymorphism
8. Blister pack.
9. Valve assembly in aerosols.
10. Advantages of soft gelatin capsules.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 0522]**

**MAY 2022  
(SEPTEMBER 2021 EXAM SESSION)**

**Sub. Code: 2052**

**B.PHARM. DEGREE EXAMINATION  
PCI Regulation 2017 – SEMESTER V  
PAPER II – INDUSTRIAL PHARMACY – I**

*Q.P. Code: 562052*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Give an account of methods of coating of tablets. Explain the process of sugar coating and its pharmaceutical applications.
2. Define pharmaceutical aerosols. Discuss in detail about types, propellants used, formulation and evaluation of aerosols.
3. Explain the manufacturing, quality control tests, packing, storage and applications of soft gelatin capsules.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Film formers.
2. Application of preformulation considerations of solids.
3. Sterile powders.
4. Lipsticks.
5. Evaluation tests for tablets.
6. Small volume parenterals.
7. Chemical properties of preformulation studies.
8. Eye ointment.
9. Evaluation of suspension.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Non aqueous vehicle in parenterals.
2. Enteric coating.
3. Sunscreens.
4. Sizes and volumes of hard gelatin capsules.
5. Binders.
6. Isotonicity.
7. Flow properties.
8. Eye drops.
9. Application of creams.
10. LAL Test.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 1022]**

**OCTOBER 2022  
(MARCH 2022 EXAM SESSION)**

**Sub. Code: 2052**

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)**

**PCI Regulation 2017 – SEMESTER V  
PAPER II – INDUSTRIAL PHARMACY – I**

***Q.P. Code: 562052***

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions.**

**(2 x 10 = 20)**

1. Briefly explain the formulation methods and evaluation tests for shampoo.
2. Differentiate hard and soft gelatin capsules. Explain the method of manufacturing of soft gelatin capsule by rotary die process.
3. Explain the different types of glasses and plastics used in Pharma industry for storage of Pharmaceutical preparation.

**II. Write notes on: Answer any SEVEN questions.**

**(7 x 5 = 35)**

1. Granulation methods for tablet dosage form.
2. Quality control tests for tablets.
3. Manufacturing of empty hard gelatin capsule shell.
4. Pan coating.
5. Numbering system used for propellants used in aerosols.
6. Sterility testing of parenteral products.
7. Cold cream.
8. Formulation of eye drops.
9. Evaluation of emulsion.

**III. Short answers on: Answer ALL questions.**

**(10 x 2 = 20)**

1. Importance of density in preformulation.
2. Superdisintegrants.
3. Razemisation.
4. Weight variation limits for tablets as per I.P.
5. Applications of aerosol.
6. LAL test.
7. Tamper resistant packaging.
8. Metered dose aerosols.
9. Various types of actuators.
10. Mention the identification tests for emulsion type.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[B.PHARM 0323]**

**MARCH 2023  
(SEPTEMBER 2022 EXAM SESSION)**

**Sub. Code: 2052**

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)  
PCI Regulation 2017 – SEMESTER V  
PAPER II – INDUSTRIAL PHARMACY I**

*Q.P. Code: 562052*

**Time: Three hours**

**Maximum: 75 Marks**

**I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)**

1. Discuss the different steps involved in multi tablet compression cycle.
2. Write in detail about the production facilities for parenteral formulation.
3. With neat diagram explain the manufacturing of soft gelatin capsules by rotary die process.

**II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)**

1. Defects in tablets manufacturing.
2. Quality control test for capsules.
3. Cold cream.
4. Shampoo.
5. Glass containers used in parenterals.
6. Formulation of eye drops.
7. Importance of valve in the aerosol package.
8. Pellets.
9. Differentiate flocculated and deflocculated suspension.

**III. Short answers on: Answer ALL questions. (10 x 2 = 20)**

1. Capping and Lamination.
2. Tests used for emulsion identification.
3. Orange peel effect.
4. Weight variation limits of tablets.
5. Desirable features of good suspension.
6. Types of gelatin with their iso electric point.
7. Advantages of parenteral formulations.
8. Why thickening agents are added to ophthalmic preparations?
9. Name the ingredients required to prepare tooth paste.
10. Types of packaging.

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