(LQ 2052) MARCH 2020 Sub. Code: 2052

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

O.P. Code: 562052

Time: Three hours Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[BPHARM 0921]

SEPTEMBER 2021 (SEPTEMBER 2020 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

Sub. Code: 2052

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[BPHARM 0122] JANUARY 2022 Sub. Code: 2052 (MARCH 2021 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[BPHARM 0522] MAY 2022 Sub. Code: 2052

(SEPTEMBER 2021 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

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

[BPHARM 1022] OCTOBER 2022 Sub. Code: 2052 (MARCH 2022 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[B.PHARM 0323] MARCH 2023 Sub. Code: 2052 (SEPTEMBER 2022 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 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.

 $(7 \times 5 = 35)$

- 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.

 $(10 \times 2 = 20)$

- 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.

[B.PHARM 0823] AUGUST 2023 (MARCH 2023 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

Sub. Code: 2052

- 1. Define aerosols and discuss about formulation and evaluation of aerosols.
- 2. Define tablets discuss about defects and evaluation of tablets.
- 3. Explain manufacturing and quality control tests for soft gelatin capsules.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Additives used in liquid orals.
- 2. Eye ointments.
- 3. Different types of packaging material used in pharma industry.
- 4. Application of pellets.
- 5. Write about instability of emulsion.
- 6. Formulation aspect of tooth paste.
- 7. Evaluation test for empty hard gelatin capsules.
- 8. Discuss stability problem of suspension.
- 9. Sham test in parentrals.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Write a test for detecting Pyrogen.
- 2. List out additives used in syrups.
- 3. Differentiate syrups and elixirs.
- 4. Preservatives used in sterile dosage form.
- 5. Define emulsion.
- 6. LVP.
- 7. Importance of surfactant in emulsion.
- 8. What is glidant and give examples.
- 9. Shampoo.
- 10. Actuator types.

[B.PHARM 1223] DECEMBER 2023 Sub. Code: 2052 (SEPTEMBER 2023 EXAM SESSION)

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.

 $(2 \times 10 = 20)$

- 1. Describe the formulation and evaluation of aerosols.
- 2. Write in detail about the formulation and evaluation of ophthalmic products.
- 3. Write a note on objectives of tablet coating. Explain the different methods of tablet coating.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Organoleptic additives and their importance on formulation of tablets.
- 2. Processing problems of tablet dosage form.
- 3. Formulation of emulsions.
- 4. Final product quality control tests for capsules.
- 5. Formulation aids for pellets.
- 6. Explain the different types of a packaging material.
- 7. Aerosol containers.
- 8. Formulation of shampoos.
- 9. Evaluation of parenteral products.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Crystallinity and Polymorphs.
- 2. Name the types of tablets.
- 3. Directly compressed tablets.
- 4. Dentifrices.
- 5. Types of glasses.
- 6. Packaging of semisolids.
- 7. Emulsifying agents.
- 8. Containers for ophthalmic products.
- 9. Significance of drug solubility.
- 10. Sticking and picking in coated tablets.