

August 2011

[KZ 4263]

Sub. Code : 4263

THIRD B.PHARM. EXAMINATION
Paper III – PHARMACEUTICAL DOSAGE FORMS
AND COSMETIC TECHNOLOGY

Q.P. Code : 564263

Time : Three hours

Maximum: 100 Marks

Answer ALL questions.

I. LONG ESSAYS

(2 x 20 = 40)

1. Define suspension? Describe the suspending agents in detail.
2. Discuss the formulation and evaluation of eye drops.

II. SHORT NOTES

(8 x 5 = 40)

1. Instability of emulsions.
2. Aerosol container.
3. Requirements for ideal suppository base.
4. Infusion.
5. Dried human plasma.
6. Cold cream.
7. Packing of semisolids.
8. Lipsticks.

III. SHORT ANSWERS

(10 x 2 = 20)

1. Additives used in liquid dosage forms.
2. Human immunoglobulin.
3. Organoleptic additives.
4. Storage condition of blood.
5. Advantages and disadvantages of suppository.
6. Eye lotions.
7. Name some emulsifying agents.
8. Semi solid dosage forms.
9. Aerosols.
10. Shampoo.

February 2012

[LA 4263]

Sub. Code: 4263

THIRD B.PHARM. EXAMINATION

**PAPER III – PHARMACEUTICAL DOSAGE FORMS
AND COSMETIC TECHNOLOGY**

Q.P. Code : 564263

Time: Three Hours

Maximum: 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Explain the different filling methods of aerosols. Give an account of propellants.
2. Write elaborately about the creams as cosmetic preparations applied to skin and hair.

II. Write notes on:

(8 x 5 = 40)

1. Evaluation of eye drops.
2. Sulphur ointment.
3. Paste.
4. Syrups.
5. Maceration.
6. Containers for ophthalmic products.
7. Suppository bases.
8. Factors influencing drug penetration in semi solids.

III. Short Answers:

(10 x 2 = 20)

1. Hair remover.
2. Solubilizer.
3. Manicure preparation.
4. Displacement Value.
5. Give two examples of stabilizers.
6. Formulation factors for eye drops.
7. Human thrombin.
8. Disadvantages of propellants.
9. What are the cautions given to ophthalmic products?
10. Colouring agents.

(LB 4263)

AUGUST 2012

Sub. Code: 4263

THIRD YEAR B.PHARM. EXAM
PAPER III – PHARMACEUTICAL DOSAGE FORMS
AND COSMETIC TECHNOLOGY

Q.P. Code : 564263

Time: Three Hours

Maximum: 100 marks

(180 Min) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks
(Max.)(Max.)(Max.)

- | | | | |
|--|----|----|----|
| 1. Describe the formulation and evaluation of AEROSOL. | 19 | 33 | 20 |
| 2. Write in detail about the following: (a) Dentifrices
(b) Baby care products. | 19 | 33 | 20 |

II. Write notes on:

- | | | | |
|------------------------------------|---|---|---|
| 1. Manicure preparations. | 3 | 8 | 5 |
| 2. Ophthalmic ointments. | 3 | 8 | 5 |
| 3. Lay out of Aseptic area. | 3 | 8 | 5 |
| 4. Emulsifying agents. | 3 | 8 | 5 |
| 5. Suppository. | 3 | 8 | 5 |
| 6. Evaluation test for injections. | 3 | 8 | 5 |
| 7. Containers for semisolids. | 3 | 8 | 5 |
| 8. Sulphur ointment. | 3 | 8 | 5 |

III. Short Answers:

- | | | | |
|-----------------------|---|---|---|
| 1. Eye drops. | 1 | 5 | 2 |
| 2. Cold cream. | 1 | 5 | 2 |
| 3. Define additive. | 1 | 5 | 2 |
| 4. Blister package. | 1 | 5 | 2 |
| 5. Gels. | 1 | 5 | 2 |
| 6. Define shampoo. | 1 | 5 | 2 |
| 7. Laminar Air flow. | 1 | 5 | 2 |
| 8. Cough syrup. | 1 | 5 | 2 |
| 9. Leaching. | 1 | 5 | 2 |
| 10. Types of glasses. | 1 | 5 | 2 |

[LC 4263]

FEBRUARY 2013

Sub. Code: 4263

THIRD YEAR B.PHARM. EXAM
PAPER III – PHARMACEUTICAL DOSAGE FORMS
AND COSMETIC TECHNOLOGY

Q.P. Code : 564263

Time: Three Hours

Maximum: 100 marks

(180 Min)

I. Elaborate on:

(2 x 20 = 40)

1. (a) Describe the production of dried human plasma.
(b) Write in detail about the control tests for blood products.
2. (a) What are the ideal properties of shampoo?
(b) Briefly explain the formulation methods and evaluation tests for shampoo.

II. Write Short Notes :

(8 x 5 = 40)

1. Ideal properties of suppository bases.
2. Labeling requirements of ophthalmic products.
3. Applications of aerosols.
4. Production Facilities for Sterile Products
5. Dentifrices.
6. Syrups.
7. Propellants.
8. Packages for semisolids

III. Short Answers :

(10 x 2 = 20)

1. Give two uses of preservatives.
2. Give two examples of eye drops.
3. Hair remover.
4. Flavouring agents.
5. Creams.
6. Storage conditions.
7. Types of clear liquid preparation.
8. Evaluation tests for emulsions.
9. Containers for ophthalmic products.
10. Emulsifying agents.

(LD 4263)

AUGUST 2013

Sub. Code: 4263

**THIRD YEAR B.PHARM. EXAM
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X20=40)

1. Discuss in detail the formulation and evaluation of Parenteral products.
2. a) What are Suppositories? Write in detail about Suppository Bases?
b) Describe the various methods of preparation of ointments with suitable examples.

II. Write notes on:

(8X5=40)

1. Liquid orals
2. Collection, Processing and Storage of Whole Human Blood.
3. Glass as a Packaging Material.
4. Eye Ointments.
5. Baby Care Products.
6. Good Manufacturing Practice (GMP)
7. Instability of Emulsion.
8. Jellies.

III. Short Answers :

(10X2=20)

1. Depilatories
2. Large volume Parenterals
3. Human Fibrinogen
4. Lipsticks
5. Aerosol Containers
6. Pessaries
7. Rouges
8. Total Quality Management
9. Quality Assurance
10. Cold Creams

(LE 4263)

FEBRUARY 2014

Sub. Code: 4263

**THIRD YEAR B.PHARM. EXAM
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X20=40)

1. Write in the detail about the formulation factors, method of preparation and evaluation of ophthalmic products.
2. Explain the various additives used in the formulation of liquid dosage forms with examples.

II. Write notes on:

(8X5=40)

1. Ideal properties of ointment bases
2. Hair cosmetics
3. Shampoo
4. Human fibrinogen
5. Dentifrices
6. Displacement value
7. Lipsticks
8. Quality Assurance

III. Short Answers on:

(10X2=20)

1. Emulsifying agents
2. Absorbable haemostat
3. Aerosol container
4. Total parenteral nutrition
5. IV Additives
6. Blister packing
7. Cosmetics for skin
8. GMP
9. Manicure preparations
10. Collection and storage of blood

(LF 4263)

AUGUST 2014

Sub. Code: 4263

**THIRD YEAR B.PHARM. EXAM
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three hours

Maximum: 100 marks

I. Essay: **(2X20=40)**

1. a) Describe the quality control test to be carried out for pharmaceutical Aerosols.
b) Write the Classification of propellants with examples.
2. a) Comment on total Parenteral Nutrition.
b) List out the parameters required during on Ophthalmic Preparation.

II. Short Notes: **(8X5=40)**

1. Test assuring quality of glass
2. GMP to be followed in pharmaceutical plant
3. Salient features of ISO 9000
4. Different types of clousers
5. Processing and storage of whole human blood
6. Types of Suppository bases with examples
7. Discuss the Suspending agents used to stabilize the suspensions
8. Factors affecting permeability or penetration rate of drug

III. Short Answers: **(10X2=20)**

1. Poultices
2. Mention the methods to identify the emulsion
3. Plasma substitutes
4. Lipstick formulation
5. Blister packs
6. I.V Additives
7. LAF
8. Baby face powder
9. Application of Aerosol
10. Gelling Agents

(LG 4263)

FEBRUARY 2015

Sub. Code: 4263

THIRD YEAR B.PHARM. EXAMINATION
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY

Q.P. Code: 564263

Time: Three hours

Maximum: 100 marks

I. Essay: **(2 x 20 = 40)**

1. Write in detail about suppository bases and explain how suppositories are evaluated.
2. Explain the formulation requirements and evaluation of Injectables solution and suspension.

II. Short notes: **(8 x 5 = 40)**

1. LAF
2. Evaluation of cosmetics for Hair
3. Production facility required for parenterals
4. Eye drops
5. Tooth powder
6. Baby care products
7. GMP
8. Instability of Emulsion

III. Short answers: **(10 x 2 = 20)**

1. Formulation additives in liquid dosage forms
2. Packaging of semisolids
3. Dextran
4. Ideal requirements of PVP
5. Sorption
6. Leaching
7. Factors influencing skin permeation
8. Types of plastics
9. Packaging of pharmaceutical aerosols
10. Functions of Skin

**B.PHARM. DEGREE EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS
AND COSMETIC TECHNOLOGY**

Q.P. Code: 564263

Time : Three Hours

Maximum : 100 marks

Answer All Questions

I. Essay:

(2 x 20 = 40)

1. a) What are the ideal properties of Shampoo? Explain the various additives used in the formulation of shampoos?
b) Explain in detail about the various functions of skin.
2. Explain in detail the collection, processing, storage, testing, use and labelling requirements of whole human blood.

II. Short notes :

(8 x 5 = 40)

1. Evaluation of Suspensions.
2. Hydrocarbon base used in ointments.
3. Jellies.
4. Define displacement value and explain its importance in formulation of suppositories.
5. Aerosol containers.
6. Advantages and limitations of plastics as packaging material.
7. Additives used in Liquid dosage forms.
8. Define eye drops and explain its ideal requirements.

III. Short answers:

(10 x 2 = 20)

1. IV additives.
2. Emulsions.
3. What is phase inversion?
4. Lubricants for suppository mould.
5. Applications of aerosol.
6. Hair cream.
7. Tamper resistant packaging.
8. LAL test.
9. Ideal requirements of parenterals.
10. TQM.

(LI 4263)

FEBRUARY 2016

Sub. Code: 4263

THIRD YEAR B.PHARM. EXAMINATION
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Essay:

(2 x 20 = 40)

1. Classify Ointment bases. Explain the properties, advantages and disadvantages of Ointment bases with suitable examples.
2. a) Define Toothpaste and explain about the additives used in the formulation of Toothpaste.
b) What are the ideal requirements of Lipsticks? Explain its quality control test.

II. Short notes:

(8 x 5 = 40)

1. Explain the importance of Organoleptic additives used in the formulation of liquid dosage forms with suitable examples.
2. Define Suppositories. What are the ideal characteristics of Suppository bases?
3. Plasma Substitutes.
4. Human Fibrinogen.
5. Define Aerosols and explain its advantages, disadvantages and applications.
6. Strip and Blister Packaging.
7. Explain the labelling requirements and packaging of Ophthalmic products.
8. GMP to be followed in storage and waste disposal of Pharmaceutical products.

III. Short answers:

(10 x 2 = 20)

1. Preservatives.
2. Ideal qualities of a good suspension.
3. Emulgents.
4. Syrups.
5. Pessaries.
6. Propellants.
7. Hair Care Products.
8. Leaching.
9. TPN.
10. Process validation.

(LJ 4263)

AUGUST 2016

Sub. Code: 4263

THIRD YEAR B.PHARM. EXAMINATION
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on :

(2 x 20 = 40)

1. a) Describe the method of preparation of dried Human Plasma.
b) Explain the different filling methods of Aerosols.
2. Explain the role of various additives used in the formulation of liquid dosage forms with suitable examples.

II. Short notes on :

(8 x 5 = 40)

1. Explain briefly the mechanism of drug penetration during application of ointments.
2. Enumerate the advantages and disadvantages of Theobroma oil Suppository base.
3. Define face powders. What are its ideal requirements?
4. Depilatories.
5. Nail Lacquers.
6. Explain the different types of glass used as a packaging material and its applications.
7. Evaluation of eye drops.
8. Quality assurance.

III. Short answers on :

(10 x 2 = 20)

1. Suspensions.
2. What is creaming and cracking?
3. Differentiate ointments and pastes.
4. Gels.
5. Suppositories.
6. Storage conditions of blood.
7. Metered dose Aerosols.
8. Sorption.
9. Labelling requirements of eye drops.
10. LVP.

(LK 4263)

FEBRUARY 2017

Sub. Code: 4263

**B.PHARM. EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. List out the official blood products in IP. Discuss with method of collection of whole human blood, risk involved in collection and storage, mention its labelling requirements.
2. Write in detail about the formulation factors, method of preparation and evaluation of ophthalmic products.

II. Short notes on: **(8 x 5 = 40)**

1. Instability of emulsions.
2. Factors influencing penetration.
3. Types of a suppository base.
4. Note on semisolid preparations.
5. Manicure preparations.
6. Differentiate between Soxhlet extraction and percolation.
7. Colours and preservatives used in liquid dosage forms.
8. Layout of aseptic area.

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

1. Ointments.
2. Types of glasses.
3. Validation.
4. TPN.
5. Bubble packs.
6. Dentifrices.
7. Example of official suspension.
8. Paste.
9. Pharmaceutical applications of aerosols.
10. AHU.

(LL 4263)

AUGUST 2017

Sub. Code: 4263

**B.PHARM. DEGREE EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the formulation and evaluation of cosmetics for Skin.
2. a) Write in detail about the production facilities required for parenteral formulation.
b) Describe the types and tests assuming the quality of glass.

II. Write notes on: **(8 x 5 = 40)**

1. Biphasic liquid dosage forms.
2. Ideal properties of ointment bases.
3. LAF and maintenance.
4. Plasma substitutes.
5. Tamper evident package and its classification.
6. Propellants.
7. Good manufacturing practices.
8. Applications of aerosols.

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

1. Gargles.
2. Purpose of additives used in liquid dosage forms.
3. Name the method of preparation of suppositories.
4. Types of plastics.
5. Various types of Actuators.
6. Composition of ACD.
7. Colouring agent.
8. Leaching.
9. Pyrogen.
10. Validation.

(LM 4263)

FEBRUARY 2018

Sub. Code: 4263

**B.PHARM. DEGREE EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe the formulation and evaluation of aerosols.
2. a) Write in detail about Suppository bases.
b) Explain how Suppositories are evaluated.

II. Write notes on:

(8 x 5 = 40)

1. Additives used in liquid dosage forms.
2. Different types of closures and closure liners.
3. Dextran.
4. Unit dose packing.
5. Dentifrices.
6. Different method and preparation of ointment with suitable example.
7. Total parenteral nutrition.
8. Validation.

III. Short answers on:

(10 x 2 = 20)

1. Enema.
2. Jellies.
3. Anticoagulant.
4. Dried human plasma.
5. Permeation.
6. GMP.
7. Laminar Air Flow.
8. HEPA filters.
9. Lipstick.
10. Depilatories.

**B.PHARM. DEGREE EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain in detail the collection, processing, storage, testing, use and labeling requirements of whole human blood.
2. a) Discuss in detail the formulation and evaluation of parenterals.
b) Depilatories.

II. Write notes on:

(8 x 5 = 40)

1. Different method and preparation of suppositories with suitable example.
2. Aerosol containers.
3. Ophthalmic products.
4. Quality control of packaging material.
5. Formulation and evaluation of shampoo.
6. Different types ointment bases used in the preparation of ointment.
7. Good manufacturing practice.
8. Manicure preparation.

III. Short answers on:

(10 x 2 = 20)

1. Types of glasses.
2. Pessaries.
3. Dentifrices.
4. Displacement value.
5. Laminar Air Flow and its significance.
6. Propellants.
7. Function of Skin.
8. Tamper resistant packaging.
9. Total Quality management.
10. Types of plastics.

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

(LO 4263)

FEBRUARY 2019

Sub. Code: 4263

B.PHARM. DEGREE EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: (2 x 20 = 40)

1. Explain Total Parenteral Nutrition (TPN) and about the additives used for the development of the intravenous formulations.
2. Discuss the formulation and evaluation of eye drops.

II. Write notes on: (8 x 5 = 40)

1. Salient features of ISO 9000.
2. Evaluation of Injectable solutions.
3. Processing and storage of whole human blood.
4. Advantages and limitations of plastics as packaging material.
5. Define displacement value and explain its importance in formulation of suppositories.
6. Factors influencing penetration of drug from semisolid dosage forms.
7. Formulation and evaluation of shampoo.
8. Discuss the suspending agent used to stabilize the suspensions.

III. Short answers on: (10 x 2 = 20)

1. Human immunoglobulin.
2. Blister package.
3. Sorption.
4. Types of clear liquid preparations.
5. Total quality management.
6. Face powder.
7. Packaging of pharmaceutical aerosols.
8. Organoleptic additives.
9. What are the cautions given in the label for ophthalmic products?
10. Hydrocarbon bases used in ointment preparation.

**B.PHARM. DEGREE EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: (2 x 20 = 40)

1. Describe the production of dried human plasma and control test for blood products as per IP.
2. Explain the various additives used in the formulation of liquid dosage form with examples.

II. Write notes on: (8 x 5 = 40)

1. Glass as packaging material.
2. Product and equipment validation.
3. Ideal properties of suppository bases.
4. Evaluation of aerosols.
5. Layout and air control of aseptic area.
6. Instability of emulsion.
7. Manicure preparations.
8. Waste disposal and storage condition as per GMP.

III. Short answers on: (10 x 2 = 20)

1. Storage condition of blood.
2. Quality assurance.
3. Rouges.
4. Human fibrinogen.
5. Function of skin.
6. LAL test and its importance.
7. Eye ointment.
8. Buble packs.
9. Quality Control Test for packaging materials.
10. Types of propellants.

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

(LQ 4263)

FEBRUARY 2020

Sub. Code: 4263

**B.PHARM. DEGREE EXAMINATION
THIRD YEAR
PAPER III – PHARMACEUTICAL DOSAGE FORMS AND COSMETIC
TECHNOLOGY**

Q.P. Code: 564263

Time: Three hours

Maximum: 100 Marks

I. Elaborate on: (2 x 20 = 40)

1. Define Pharmaceutical Aerosols. Discuss the formulation, propellant used, packaging and applications of Aerosols.
2. Describe in detail about conditions adopted in handling of raw materials, waste disposal and storage as per GMP in Pharmaceutical Industry.

II. Write notes on: (8 x 5 = 40)

1. Additives used in liquid dosage forms.
2. Mechanism of drug penetration through skin.
3. Ideal requirements of suppositories.
4. Plasma substitutes.
5. Types of plastics used in pharmaceutical products.
6. Draw a neat labelled layout of sterile unit.
7. Compact powders.
8. Evaluations of injectable solutions.

III. Short answers on: (10 x 2 = 20)

1. Fill volume.
2. Alu-Alu packing.
3. Sterile powders.
4. HVAC system.
5. TQM.
6. Plasma expanders.
7. Clear gels.
8. Evaluation of semisolids.
9. Emulsifiers.
10. Rouges.
