

APRIL - 1990

017

SECOND B.Pharm. EXAMINATION, APRIL 1990

PREPARATIVE PHARMACY

Time : Three hours

Maximum : 100 marks

Answer any SIX questions of which Question 4 and 8 compulsory.

1. Briefly write about the scope of pharmaceutical profession in India. (15)
2. Write the properties of drug components with an example of each of the following, meant for extraction :
 - (a) Glycosides.
 - (b) Alkaloids. (15)
3. Explain in detail the official maceration process meant for galenical preparations. (15)
4. Write notes on any two of the following :
 - (a) Continuous hot extraction.
 - (b) Industrial methylated spirit.
 - (c) Communion. (20)

5. Define aromatic waters. How do you prepare the following ?

- (a) Camphor water.
- (b) Dill water. (15)

6. Explain in detail the method of preparation of solution of cresol with soap. (15)

7. Write notes on the following :

- (a) Collodions.
- (b) Mucillages.
- (c) Elixirs. (15)

8. Define emulsion. Explain the principles and mechanism of emulsification. (20)

OCTOBER - 1990

017

SECOND B.Pharm. DEGREE EXAMINATION, OCTOBER 1990.

Paper V — PREPARATIVE PHARMACY

Time : Three hours.

Maximum : 100 marks.

SIX questions are to be answered.

Question Nos. 4 and 8 are compulsory.

Answer any FOUR remaining questions.

1. What is Metrology? Give the tables for different systems of weights in pharmacy. (15 marks)
2. Write a brief note on the following solvents used in extraction of drug components (a) water (b) alcohol. (15 marks)
3. Write notes on the following :
(a) Extraction of oils.
(b) Elixirs.
(c) Clarification in pharmacy. (3 × 5 = 15 marks)
4. Explain in detail the reserved percolation process employed for galenical preparations. (20 marks)
5. Explain in detail the principle and method of preparation of strong ammonium acetate solution. (15 marks)

6. Write notes on the following :

(a) Glycerins.

(b) Liniments.

(c) Syrups.

(3 × 5 = 15 marks)

7. How spirits differ from tinctures? Explain in detail the method of preparation of Aromatic spirit of ammonia. (15 marks)

8. Define emulsion. Explain the stability of emulsions in detail. (20 marks)

042

SECOND B.PHARM. DEGREE EXAMINATION, APRIL 1991.

Paper V — PREPARATIVE PHARMACY

Time : Three hours.

Maximum : 100 marks.

Six questions are to be answered.

Question Nos. 1 and 2 are compulsory.

Answer any FOUR of the remaining questions.

1. What are emulsions ? Explain how they are formulated and prepared with a suitable example. Classify emulsifying agents with suitable examples. (20 marks)
2. With the help of a neat diagram describe the process of percolation in detail. Describe the preparation of Belladonna Dry Extract, I.P. giving reasons for each step. (20 marks)
3. What are mixtures ? Classify and give examples. Discuss the principle and method of preparation of Magnesium Hydroxide Mixture. (15 marks)
4. Distinguish between : (15 marks)
 - (a) Lotion and Liniment.
 - (b) Spirits and Tinctures.
 - (c) Syrups and Glycerins.
5. What are aromatic waters ? Mention their applications in pharmacy. Describe the different methods of preparation of aromatic waters with suitable examples. (15 marks)

6. Discuss the principle, method of preparation and uses of any TWO of the following : (15 marks)

- (a) Aromatic spirit of Ammonia.
- (b) Lugol's solution.
- (c) Tolu Balsam syrup.

7. What are collodions ? Give the formula and method of preparation of Flexible collodion. (15 marks)

8. (a) Define and explain the scope of the term 'pharmacy'.
(b) Discuss the sources of error in weighing.

- (c) Discuss the application of the following solvents in pharmaceutical products :

- (i) Alcohol.
- (ii) Glycerin. (3 × 5 = 15 marks)

[RS 540]

SECOND B.Pharm. DEGREE EXAMINATION.

(Old Regulations)

Paper V — PREPARATIVE PHARMACY

Time : Three hours

Maximum : 75 marks

Answer any FIVE questions.

All questions carry equal marks.

1. What are Syrups? Discuss about the preparation and labelling of simple syrup I.P.?
2. Write short notes on :
 - (a) Maceration.
 - (b) Liquid Paraffin Emulsion.
 - (c) Compound Rhubarb Powder.
3. What are liquid extracts? How do they differ from dry extracts? Explain the preparation of Bellodonna liquid extract.
4. Discuss the principle, method of preparation and uses of any TWO of the following :
 - (a) Digitalis tincture.
 - (b) Concentrated Vitamin A and D solution.
 - (c) Cresol and soap solution.

5. What are solutions? Explain the preparation of (a) Adrenaline solution, (b) Strong Ammonium Acetate solution.
6. Explain the different types of alcohols used in Pharmacy. Describe the preparation of absolute alcohol.
7. Explain the preparation of
 - (a) Compound Gentian infusion.
 - (b) Glycerin of starch.
 - (c) Calamine lotion.
8. (a) What is the scope of pharmacy in Retail Sale organisations?
 - (b) Explain the Apothecary system of weights and what are their metric equivalents?
 - (c) Describe the preparation of Aromatic spirit of Ammonia by cold process.

APRIL - 1993

[R S 545]

SECOND B.Pharm. DEGREE EXAMINATION

(New Regulations)

Paper V — PREPARATIVE PHARMACY

Time : Three hours.

Maximum : 90 marks.

Two and a half hours
for Sections A and B

Sections A and B : 60 marks.

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Discuss the importance of Colloidal system and its application to pharmaceutical preparations.
2. Write the method of preparation and the principles involved in the preparation of
 - (a) Lysol
 - (b) Dakin's solution.
3. Write briefly on instability of emulsions. Discuss the method of preparation of emulsions in large scale.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

4.
 - (a) Lugol's solution
 - (b) Albumins in galanicals
 - (c) Concentrated infusions
 - (d) Glycerins
 - (e) Pyroxylin
 - (f) Official spirits
 - (g) Lotions
 - (h) Syrups.

NOVEMBER - 1993

[PR 162]

SECOND B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper V — PREPARATIVE PHARMACY

Time : Three hours

Maximum : 90 marks

Two and a half hours
for Sections A and B

Sections A and B : 60 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Discuss the various methods employed in the extraction of crude drugs with suitable examples.
2. Explain the principle involved in the method of preparation of any two in which the final preparation is adjusted to a desired pH.
3. Write briefly on the factors needing consideration for the stability of emulsions.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

4. Write short notes on any SIX :
 - (a) Proof spirit.
 - (b) Lysol.
 - (c) Liniment.
 - (d) Aromatic water.
 - (e) Syrups.
 - (f) Flexible collodions.
 - (g) Infusions.
 - (h) Elixir.
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NOVEMBER - 1994

[ND 574]

SECOND B.Pharm. DEGREE EXAMINATION

(Old Regulations)

Paper V — PREPARATIVE PHARMACY

Time : Three hours.

Maximum : ¹⁰⁰~~20~~ marks.

Answer any FIVE questions.

All questions carry equal marks.

1. Define Aromatic waters. Discuss the method of preparation of camphor water and concentrated dill water.
2. Discuss the principle, method of preparation and uses of
 - (a) Surgical solution of chlorinated soda
 - (b) Mixture of magnesium hydroxide.
3. Define Syrup. Discuss the principle, method of preparation and uses of
 - (a) Syrup of tolu
 - (b) Syrup of lemon.
4. Discuss the method of preparation of
 - (a) Tincture of Benzoin
 - (b) Malt extract.

[ND 574]

5. How Maceration differs from percolation process ? Describe the method of preparation of liquid extract of Nuxvomica.
6. Write a brief note on the following systems of weights and measures :
 - (a) Imperial system
 - (b) Metric system.
7. Write short notes on :
 - (a) Effervescent medications
 - (b) HLB formulations.
8. Write the method of preparation of
 - (a) Any Elixir
 - (b) Pyroxilin.

NOVEMBER - 1994

[ND 579]

SECOND B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper V — PREPARATIVE PHARMACY

Time : Three hours

Maximum : 90 marks

Two and a half hours

Section A and B : 60 marks

for Section A and B

Answer Section A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Define syrup. Write the method of preparation of
 - (a) Syrup of Tolu.
 - (b) Compound syrup of Ferrous phosphate.
2. Define Maceration and Percolation. Discuss the method of preparation of liquid extract of Ipecac.
3. Discuss the method of preparation of
 - (a) Magnesium hydroxide mixture.
 - (b) Solution of cresol with soap.

[ND 579]

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

4. Write short notes on any SIX :
 - (a) Aqueous solution of Iodine.
 - (b) Liniment of Turpentine.
 - (c) Calamine lotion.
 - (d) Bancroft's rule of emulsification.
 - (e) Oriented wedge theory of emulsification.
 - (f) Mucilage of Tragacanth.
 - (g) Aromatic spirit of ammonia.
 - (h) Elixir.
 - (i) Medical gases.

APRIL - 1995

SB 576

SECOND B.Pharm DEGREE EXAMINATION

(Old Regulation)

Paper V - PREPARATIVE PHARMACY

Time: Three hours

Maximum: 100 Marks

Answer any FIVE Questions

All questions carry equal marks

1. Discuss the Principle, Method of Preparation, use, labelling and storage aspects of
 - (a) Dakin's solution
 - (b) Unna's paste
 - (c) Turpentine liniment
2. Describe the percolation process along with its modifications.
3. Classify tinctures. Give the general methods of preparation of tinctures giving one example under each method.
4. Discuss the theory of emulsions. Add a note on their stability.

SB 576

5. Explain the properties of glycosides, alkaloids and proteins.
 6. Write notes on characteristics and advantages of syrups. How is syrup of Ferrous Phosphate made?
 7. What is HLB system? What is creaming and cracking? How are emulsions stabilised?
 8. Classify extracts. Give the general methods of preparation of extracts giving an example under each category.
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APRIL - 1995

[SB 581]

SECTION B

Second B. Pharm. Degree Examination

(New Regulations)

Paper V - PREPARATIVE PHARMACY

Time : Three hours Maximum : 90 Marks

Answer Sections A and B in separate answer books

Answer Section C in the answer sheet provided

SECTION—A (2 x 15 = 30)

Answer any TWO questions

1. Classify extracts. Give the general methods of preparation of extracts giving one example under each category.
2. Compare and contrast
 - a) Liniments and lotions
 - b) Spirits and tinctures
 - c) Syrups and glycerins
 - d) Elixirs and solutions
3. What are the techniques of emulsification? Classify emulgents. Discuss the HLB system.

(8 x 5 = 30)

4. Write short notes on any SIX :

- a) Concentrated peppermint water
- b) Malt extract
- c) Calamine lotion
- d) Infusion
- e) Pyroxylin
- f) Lysol
- g) Proof spirit
- h) Alcohol as a solvent

NOVEMBER - 1995

[MB 713]

SECTION - B

(6X5 = 30)

Second B. Pharm Degree Examination

(New Regulations)

Paper V - PREPARATIVE PHARMACY

Time : Three hours Maximum : 90 marks
Two and a half hour Sec. A and B : 60 marks
for Sec. A and B

Answer section A and B in separate answer books

Answer Section C in the answer sheet provided

SECTION—A (2X15 = 30)

Answer any TWO questions

1. Describe the process of percolation. What are its modification ?
2. Explain the characteristics of syrups & Glycerites.
How is parish's food prepared ?
3. Discuss the theory of emulsification. How is benzyl Benzoate application (Emulsion) made ?

Write short notes on any Six :

- a) H L B
- b) Cohobation
- c) White lotion
- d) Roxenol
- e) Soap liniment
- f) Aromatic spirit of Ammonia
- g) Mucilage of Acacia
- h) Camphor water

NOVEMBER - 1995

[MB 728]

Second B. Pharm Degree Examination

(Revised Regulations)

**Paper V - PREPARATIVE PHARMACY INCLUDING
HISTORY OF PHARMACY**

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A and B : 60 marks
for Sec. A and B

Answer sections A and B in separate answer books.

Answer section C in the answer sheet provided.

SECTION—A (2X15=30)

Answer any Two questions

1. Write in brief on :
 - a) Pharmaceutical education in India
 - b) History and development of Indian pharmacopoeia
2. Write in brief on :
 - a) Formulation of an elixir
 - b) Inaccuracies in weighing and measuring
3. Describe in detail the method of preparation of liquid extract of liquorice.
Give reason for each step involved in the preparation.

SECTION—B (6X5=30)

Answer any Six questions

4. Give factors influencing rate of solutions.
5. Write the method of preparation of sulphur ointment.
6. Enumerate the properties required of an ideal suppository base.
7. Explain the method of preparation of effervescent granules.
8. List out the official medical gases including their uses.
9. Write the method of preparation of an allergenic extract.
10. Enumerate the merits and demerits of powders as a dosageform.
11. Enumerate the diagnostic use of Radio pharmaceuticals.

APRIL - 1996

[AK 713]

Subject Code : 4170

Second B. Pharm Degree Examination

(New Regulations)

Paper V - PREPARATIVE PHARMACY

Time : Three hours. Maximum : 90 marks.

Two and a half hours

for Section A and B Sec. A and B : 60 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION - A (2×15 = 30)

Answer any TWO questions

1. What are ideal requirements of suppository bases. Explain the advantages and disadvantages of the various suppository bases used.
2. Describe the different modifications of percolation process. List their specific advantages.
3. Differentiate syrups and Elixirs. Give IP examples of these preparations and their method of preparation. What are their advantages and disadvantages.

SECTION - B (6×5 = 30)

Answer any SIX questions.

1. What are aromatic water ? Describe the method of preparation of any one.
 2. Why the active component of a powder formulation has increased stability ? Explain.
 3. How is the flexible collodion prepared ?
 4. What are mucilages ? Give the method of preparation and uses of mucilage Acaciae
 5. Describe in brief any three methods used for the exclusion of proteins from the pharmaceutical products
 6. Write a note on creaming and cracking of an emulsion.
 7. List the solvents used for the extraction of drug constituents with suitable examples.
 8. Give the preparation of calamine lotion and write the functions of each ingredient.
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APRIL - 1996

[AK 728]

Subject Code : 4175

SECTION - B

(6×5 = 30)

Second B. Pharm Degree Examination

(Revised Regulation)

**Paper V - PREPARATIVE PHARMACY INCLUDING
HISTORY OF PHARMACY**

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A and B . 60 marks
for Section A and B

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided

SECTION - A (2×15 = 30)

Answer any TWO questions

1. a) Write a brief note on allergins and what are the tests performed to diagnose allergy

b) Explain the preparation of different allergenic extraction in brief.
2. Discuss in detail the medical and diagnostic applications of radio pharmaceuticals.
3. What are the ideal requirements of suppository bases ? Explain the advantages and disadvantages of various suppository bases used.

Write short notes on any SIX of the following :

- a) Registration of a pharmacist
 - b) Proof spirit
 - c) Aromatic spirit of Ammonia
 - d) Different types of ointment bases
 - e) Advantages and disadvantages of powders as dosage forms
 - f) Effervescent granules
 - g) Uses of oxygen and helium as medical gases
 - h) Define the following
 1. Lotion 2. Creams 3. Maceration
 4. Aromatic waters 5. Emulsions
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[MS 710]

Sub. Code : 4170

SECOND B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper V — PREPARATIVE PHARMACY

Time : Three hours

Maximum : 90 marks

Two and a half hours

Sections A and B : 60 marks

for Section A and Section B

Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Describe maceration process for concentrated preparations. Explain selection of Maceration or percolation for tinctures and concentrated preparations.

2. What are aromatic waters and spirits? Describe the methods of aromatic waters preparation with relevant Examples. Explain preparation of Aromatic spirit of ammonia.

3. Describe the more important theories of emulsification. Discuss the stability of emulsions and the stability and phase volume ratio of emulsions.

[MS 710]

SECTION B — (6 × 5 = 30 marks)

4. Write short note on any SIX :

- (a) Scope of pharmacy in Government organisation.
- (b) SI BASE UNITS.
- (c) Similarities and dissimilarities between lotions and liniments.
- (d) Collodions.
- (e) Incompatibilities involved in elixirs.
- (f) Extract of malt with cod liver oil.
- (g) Surgical solution of chlorinated Soda.
- (h) Compound Syrup of ferrous phosphate B.P.C.

[MS 712]

Sub. Code : 4175

SECOND B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper V — PREPARATIVE PHARMACY INCLUDING
HISTORY OF PHARMACY

Time : Three hours Maximum : 90 marks

Two and a half hours Sections A and B : 60 marks
for Section A and Section B. Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Define an Allergen. Write in brief the sensitivity testing with Allergenic Extract. What are the general procedures and precautions employed in the preparation of Allergenic Extracts? (2 + 4 + 9)

2. (a) Write a brief account of the principal objectives of pharmaceutical Education in India.

(b) Discuss in detail the method of preparation of Glycyrrhiza Fluid extract with reasons for each step involved in the preparation.

[MS 712]

3. (a) Write in brief on the criteria for an optimal Radiopharmaceutical. Discuss the Radionuclides used in diagnostic radiopharmaceuticals and positron emitting radionuclides. (3 + 3 + 1½)

(b) What are the factors to be considered when selecting a suppository base? Discuss in detail the general methods of preparation of suppositories. (2 + 5½)

SECTION B — (6 × 5 = 30 marks)

4. Write short notes on any SIX of the following :

(a) Precautions to be employed in the preparation of chloramphenicol Eye Drops B.P.

(b) Merits and demerits of Hydrocarbon and Absorption bases in ointments.

(c) Principle of preparation of Dakin's solution.

(d) Method of preparation of Flexible Collodion.

(e) Official medical gases, their uses and status in cylinders.

(f) Procedure for Registration as a Pharmacist.

(g) Formulation of Jellies.

(h) Special problems in manufacturing powders.

[SV 712]

Sub. Code : 4175

SECOND B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper V — PREPARATIVE PHARMACY INCLUDING
HISTORY OF PHARMACY

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A and Sec. B Section C : 30 marks

Answer Section A and B in separate sheets.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Discuss the powders as a dosage form giving advantages and disadvantages. Outline the method of preparation of Effervescent granules. (7 + 8)
2. What are the official extraction methods? Describe in detail the percolation process of drug extraction with examples. (2 + 10 + 3)
3. (a) What are Collodions? How are they prepared? Give examples. (2 + 4 + 2)
(b) Write a note on various medical gases and their uses. (7)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX of the following :

- (a) Give the SI units of the following : Mass, Radio-activity, Density, Volume.
- (b) What are the requirements for registration of Pharmacists?

(c) Why is cocoa butter not heated above 36°C while making suppositories?

(d) Name atleast two Radio Pharmaceuticals for each diagnostic and therapeutic use.

(e) Differentiate between Lotions and Liniments. Give example.

(f) Why is Potassium Iodide included in the preparation of weak Iodine solution?

(g) Why is Glycerine chosen as vehicle in the preparation of Glycerites (Glycerines)?

(h) Describe the Pharmaceutical Education System in India.

(i) Outline a method of preparation of an ointment.

[SM 712]

Sub. Code : 4175

SECOND B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper V — PREPARATIVE PHARMACY INCLUDING
HISTORY OF PHARMACY

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A and Sec. B Section C : 30 marks

Answer Section A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. (a) Write a brief account on the scope of Graduate pharmacists. (7)
(b) Describe the facilities required for the preparation of Radiopharmaceuticals. (8)
2. Define ointments. Classify ointment bases with their properties. Give examples. Discuss the general method of preparation of creams. (1 + 2 + 4 + 2 + 6)
3. (a) Write a note on standardisation and storage of allergenic extracts. (4 + 4)
(b) What are syrups? Outline a procedure for making simple syrup. (2 + 5)

SECTION B — (6 × 5 = 30 marks)

4. Write short notes on any SIX :
 - (a) Preparation of Glycerin suppositories.
 - (b) Preparation of white Liniment BPC.

(c) Difference between Density and specific gravity. Give their units.

(d) Difference in method of preparation of Tincture from organised drugs and unorganised drugs.

(e) Ideal requirements of suppositories base.

(f) Formulation of Effervescent Granules.

(g) Waste disposal while handling Radiopharmaceuticals.

(h) Safety considerations while handling oxygen.

(i) Development of Indian pharmacopoeia.

[SG 709]

Sub. Code : 4184

SECOND B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — PREPARATIVE PHARMACY

Time : Three hours Maximum : 90 marks

Two and a half hours Section A & B : 60 marks

for Section A and B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — ($2 \times 15 = 30$ marks)

Answer any TWO questions.

1. What are official extraction methods? Give a brief account of extracts. Discuss the method of preparation of malt extract. (2 + 3 + 10)
2. Distinguish between elixirs and syrups. Discuss the method of preparation of Aromatic Spirit of Ammonia I.P. (5 + 10)
3. (a) Discuss scope of pharmacy.
(b) Discuss history of Indian pharmacopoeia. (2 + 7 $\frac{1}{2}$)

SECTION B — ($6 \times 5 = 30$ marks)

4. Answer any SIX of the following :
 - (a) Phenol glycerin should not be diluted with water. Why?
 - (b) Give a brief account of gargles.

(c) What is Unna's paste? Write a note on it.

(d) What are the requirements for registration of pharmacists?

(e) How effervescent granules are made?

(f) Give a brief account of diagnostic and therapeutic uses of radiopharmaceuticals.

(g) What are glycerites? Discuss preparation and uses of starch glycerin.

(h) Write a note on colour codes of medicinal gases.

(i) Write a note on standardisation of allergenic extracts.

[KA 709]

Sub. Code : 4184

SECOND B. Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — PREPARATIVE PHARMACY INCLUDING
HISTORY OF PHARMACY

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A & Sec. B. Section C : 30 marks

Answer Sections A & B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — ($2 \times 15 = 30$ marks)

Answer any TWO questions.

All questions carry equal marks.

1. Give an account of various bases used in the preparation of suppositories. Outline the general method of preparation of suppositories using cocoa butter as base. (8 + 7)
2. Describe the general method of preparation of allergenic extracts. How are they standardised? (8 + 7)
3. (a) Discuss the various career opportunities available to graduate pharmacists. (8)
(b) Outline a procedure for making simple syrup. (7)

SECTION B — ($6 \times 5 = 30$ marks)

Answer any SIX questions.

All questions carry equal marks.

4. (a) Give a note of the background on the development of Indian Pharmacopoeia.
(b) Write the difference(s) between density and specific gravity. Give their units.
(c) Write a short note on the principle involved in the preparation of cresol with soap solution (Lysol).
(d) Define aromatic waters. How are they prepared?
(e) Write the importance of dry syrup.
(f) Classify ointment bases with their properties.
(g) Combination of two acids (citric acid and tartaric acid) is required to make effervescent granules. Justify the statement.
(h) Differentiate between the procedure followed in the preparation of 'Tincture from organised drugs' and 'Tincture from Unorganised drugs'.
(i) How are Radio Pharmaceuticals stored?

[KB 709]

Sub. Code : 4184

SECOND B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — PREPARATIVE PHARMACY

INCLUDING HISTORY OF PHARMACY

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — ($2 \times 15 = 30$ marks)

Answer any TWO questions.

1. Define ointment. Describe the various ointment bases with examples and their advantages and disadvantages.

2. Discuss in detail the general formulation and preparation of solutions and eye drops. Give the examples of all additives used in their formulation and preparation.

3. Briefly describe the various methods of extraction. With the help of a neat diagram describe the Soxhlet's extraction process.

SECTION B — ($6 \times 5 = 30$ marks)

Answer any SIX questions.

4. What are the various career opportunities available for a Pharmacist?

5. Describe briefly the historical development of I.P.

6. List the various properties of an ideal suppository base.

7. Write the principle involved in the preparation of effervescent granules.

8. Write a note on official medical gases and their uses.

9. Describe the method of preparation of a lotion and liniment, with one example each.

10. What are the precautions to be taken while handling and storing of Radio active materials?

11. Write a note on Allergenic extracts.

[KC 709]

Sub. Code : 4184

SECOND B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — PREPARATIVE PHARMACY

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — ($2 \times 15 = 30$ marks)

Answer any TWO questions.

1. What are Suppositories? Write down the ideal requirements of a suppository base. Describe the procedure of making suppositories using cocoa butter as base. (2 + 5 + 8)

2. Discuss powders as a dosage form. Describe the procedure for manufacturing Effervescent granules. (7 + 8)

3. Define Allergenic Extracts. Describe the general process of preparing allergenic extracts. How is potency of these products expressed? (2 + 8 + 5)

SECTION B — ($5 \times 6 = 30$ marks)

Answer any SIX questions.

4. Explain the procedure for registration as Pharmacist.

5. Write a note on the SI system of units used in Pharmacy.

6. What are spirits? What precaution is required to taken in preparing spirits? Give examples.

7. Differentiate between Ointments and Pastes. Give examples.

8. Describe the maceration process followed for organised drugs.

9. List out the essential requirements of Eye drops. Give examples.

10. How are radio waste materials disposed off?

11. What do you understand by sensitivity of a balance? How is it determined?