

[KV 802]

SEPTEMBER 2009

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define prescription.

Write in detail about the various parts and handling of prescriptions.

2. Classify powders. Give example for each type of powder.

Mention the advantages and disadvantages of powders.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Gargles and mouthwash.

2. Stability and evaluation of emulsions.

3. Methods of preparation of spirits.

4. Sutures and ligatures.

5. Lotions and liniments.

6. Calculation of children doses.

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[KW 802]

MARCH 2010

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

***Q.P. Code: 383802***

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write the historical background and development of pharmacy and pharmaceutical industry.
2. Define posology. Write the methods of calculation of children and infant doses.  
Write the factors affecting dose selection.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Suspensions and suspending agents.
2. Throat paints.
3. Methods of preparation of suppositories
4. Classify and identification of types of emulsion.
5. Surgical dressings.
6. Physical and chemical incompatibility

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[KX 802]

SEPTEMBER 2010

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

***Q.P. Code: 383802***

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify Suppository bases. What are the characteristics of an ideal base?  
Give a detailed method of preparation.

2. Define Emulsion. Classify Emulsifying agents and Explain in detail.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write about the formulation criteria for effervescent granules.

2. Write about the preparation of calamine lotion.

3. What is therapeutic incompatibility? How do you over come it?

4. Classify medicated bandages and its uses.

5. How much water should be mixed with 6000 ml of 40% (v/v) alcohol to make 20% (v/v) alcohol?

6. Give a short note on preparation of spirits.

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[KY 802]

MAY 2011

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 onwards)**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define and classify monophasic liquid dosage forms.  
Discuss the various adjuvant used in the formulation of oral liquid dosage forms.
2. Define incompatibility and classify them with suitable example.  
Discuss physical incompatibility and therapeutic incompatibility with the help of suitable example.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Discuss different factors affecting fixation of dose of a drug.
2. Convert 40% v/v alcohol into proof strength.
3. Describe the identification tests for emulsion.
4. Displacement value and its importance.
5. Soxhlet extraction process.
6. Differentiate between the procedures followed in the preparation of tinctures from organized and unorganized drugs.

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## DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

## FIRST YEAR

## PAPER II – PHARMACEUTICS

*Q.P. Code: 383802*

Time: Three Hours

Maximum: 100 marks

Answer ALL questions in the same order.

## I. Elaborate on :

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

- |                                                                                                            |    |         |    |
|------------------------------------------------------------------------------------------------------------|----|---------|----|
| 1. Discuss about posology. Explain about the factors affecting the dose and action of drugs with examples. | 17 | 40 min. | 20 |
| 2. Explain in detail about suppository bases with examples.                                                | 17 | 40 min. | 20 |

## II. Write notes on :

- |                                                                                                                                                                                                   |   |         |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------|---|
| 1. a) Give the Latin terms for the following:<br>1. Food 2. Twice a day 3. apply                                                                                                                  |   |         |   |
| b) Give the English meaning for the following:<br>1. Pulvis 2. Receipe 3. Solve                                                                                                                   | 4 | 10 min. | 6 |
| 2. Explain about soxhlation?                                                                                                                                                                      | 4 | 10 min. | 6 |
| 3. What are colouring agents? Explain them with example.                                                                                                                                          | 4 | 10 min. | 6 |
| 4. What are advantages and disadvantages of suppositories?                                                                                                                                        | 4 | 10 min. | 6 |
| 5. What is the percentage of zinc oxide in an ointment prepared by mixing 200 g of 10% ointment, 50 g of 20% ointment and 100 g of 5 % ointment?                                                  | 4 | 10 min. | 6 |
| 6. What are the ingredients used in powder formulation?                                                                                                                                           | 4 | 10 min. | 6 |
| 7. Rx<br>a) Atropine sulphate 0.006<br>Phenobarbital 0.015<br>Aspirin 0.3<br>Sig: One capsule t.i.d<br>Find out the incompatibility problem in the above prescription and the steps to correct it | 4 | 10 min. | 6 |
| b) If 1500g solution containing 75g of a drug substance what is the percentage strength (w/w) of the solution                                                                                     |   |         |   |
| 8. What is effervescent powder and explain this with example.                                                                                                                                     | 4 | 10 min. | 6 |
| 9. Explain in brief about surgical sutures.                                                                                                                                                       | 4 | 10 min. | 6 |
| 10. Write about the formulation of suspensions.                                                                                                                                                   | 4 | 10 min. | 6 |

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION****FIRST YEAR****PAPER II – PHARMACEUTICS***Q.P. Code: 383802***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :****Pages Time Marks  
(Max.) (Max.) (Max.)**

- |                                                                                                                   |    |         |    |
|-------------------------------------------------------------------------------------------------------------------|----|---------|----|
| 1. a) Define prescription. Explain the various parts of prescription.                                             | 17 | 40 min. | 20 |
| b) Write the historical background and development of pharmacy.                                                   |    |         |    |
| 2. Define 'Surgical dressings'. Write the ideal characteristics of surgical dressings and explain about bandages. | 17 | 40 min. | 20 |

**II. Write notes on :**

- |                                                                                    |   |         |   |
|------------------------------------------------------------------------------------|---|---------|---|
| 1. What are the various factors that influence done? Explain with examples.        | 4 | 10 min. | 6 |
| 2. Write a short note on sutures and sutures materials.                            | 4 | 10 min. | 6 |
| 3. Identification test available for the types of emulsion.                        | 4 | 10 min. | 6 |
| 4. Pharmaceutical Powders.                                                         | 4 | 10 min. | 6 |
| 5. Define and differentiate lotions and liniments.                                 | 4 | 10 min. | 6 |
| 6. Suppository Bases.                                                              | 4 | 10 min. | 6 |
| 7. Convert 70% of Alcohol to proof spirit.                                         | 4 | 10 min. | 6 |
| 8. Discuss about suspending agent.                                                 | 4 | 10 min. | 6 |
| 9. Soxhlet extraction process.                                                     | 4 | 10 min. | 6 |
| 10. Write the various adjuvant used in the formulation of oral liquid dosage forms | 4 | 10 min. | 6 |

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**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION****FIRST YEAR****PAPER II – PHARMACEUTICS***Q.P. Code: 383802***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

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

- |                                                                                                                   |    |         |    |
|-------------------------------------------------------------------------------------------------------------------|----|---------|----|
| 1. Define Incompatibility. Explain the chemical and Physical Incompatibility with examples.                       | 17 | 40 min. | 20 |
| 2. a) Classify and Enumerate the advantage of powders.<br>Describe the dispensing of Dusting powder with example. | 17 | 40 min. | 20 |
| b) Add a note on Microcapsule.                                                                                    |    |         |    |

**II. Write notes on:**

- |                                                                                                    |   |         |   |
|----------------------------------------------------------------------------------------------------|---|---------|---|
| 1. Define prescription. Discuss on various parts of prescription.                                  | 4 | 10 min. | 6 |
| 2. Discuss the method of calculating children dose.                                                | 4 | 10 min. | 6 |
| 3. Explain the preparation of Mouthwash and Collodions.                                            | 4 | 10 min. | 6 |
| 4. Give the note on challenges for Pharmaceutical Industry in India.                               | 4 | 10 min. | 6 |
| 5. In what proportion should alcohols of 85% and 40% be mixed to make 60% alcohol?                 | 4 | 10 min. | 6 |
| 6. Explain factors affecting the stability of emulsion.                                            | 4 | 10 min. | 6 |
| 7. Describe the various adjuvant required in the formulation of liquid dosage form.                | 4 | 10 min. | 6 |
| 8. Give the account of Identification test for types of emulsion.                                  | 4 | 10 min. | 6 |
| 9. How much water should be mixed with 5000mL of 85%(v/v) alcohol to make 50% alcohol?             | 4 | 10 min. | 6 |
| 10. Explain any ONE chemical Incompatibility and the method to overcome the problem with examples. | 4 | 10 min. | 6 |

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[LC 802]

APRIL 2013

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Prescription. Discuss in detail the importance of various parts of prescription with suitable example.
2. a) Explain the preparation and Identification methods of emulsion.  
b) Write about factors influencing stability of emulsion.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Explain the methods of evaluation of Suppositories.
2. Describe the technique of “Percolation” process.
3. Write briefly about bi-phasic liquid dosage form.
4. Give the note on National formulary of India.
5. Enumerate the advantages and disadvantages of oral powders.
6. Discuss briefly about throat paints and throat sprays.
7. Explain the role of thickening agents in the formulation of suspensions.
8. Papevarine hydrochloride (M.W 376) is a 2-ion electrolyte dissociating 80% in a given concentration. Calculate its sodium chloride (M.W 58.5) equivalent.  
(Substance dissociate in to 2-ion, i factor is 1.8.)
9. What are the standards prescribed by the B.P.C. for Dressing?
10. Discuss Two Therapeutic Incompatibilities and method to overcome with example.

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[LD 802]

OCTOBER 2013

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define emulsion.

Give an account of methods of preparation, stability and preservation of emulsion.

2. a) Define and classify mixture with suitable examples.

b) Explain the method of preparation of mixtures containing diffusible and indiffusible solids.

**II. Write notes on:**

**(10 x 3 = 30)**

1. Classify Suppository bases. What are the characteristics of an ideal base?

2. Explain about materials used for primary wound dressing.

3. Physical incompatibility.

4. Discuss about emulsifying agent.

5. Define prescription. Describe the various parts of a prescription.

6. Classify the surgical dressings and write a note on Absorbent Cotton wool.

7. Soxhlet extraction process.

8. Define and classify powders giving their merits and demerits.

9. Historical background and development of pharmacy.

10. Classify the various methods & give the formula for the calculation of paediatric doses.

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**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION****FIRST YEAR****PAPER II – PHARMACEUTICS***Q.P. Code: 383802***Time: Three Hours****Maximum: 70 marks****Answer All questions****I. Elaborate on:****(2 x 20 = 40)**

1. Define incompatibility.

Discuss the various types of incompatibility with three examples each.

How do you overcome chemical incompatibility?

2. a) Define prescription.

Explain the various parts of a prescription.

Give an example of

a. typical prescription.

b. Write on Effervescent Granules.

**II. Write notes on:****(10 x 3 = 30)**

1. What are the factors that influence the dose of a drug?

2. Explain the various formulae used for calculating child dose from adult dose.

3. How are potent drugs dispensed as powders?

4. What are liniments? Give few examples, preparation and use.

5. Mention the types of emulsions and explain the preparation of emulsion by the dry gum method.

6. List out any four Latin terms, abbreviations and English meaning for time of administration of medicines.

7. Maceration process.

8. Identification test available for the types of emulsion.

9. a) Adult dose of a drug is 420 mg. Calculate the dose for 9 years old child.

(Show calculations).

b) Prepare 250 ml. of 40% alcohol from 66% and 10% alcohol (alligation method).

10. Mixtures containing indiffusible solids with examples.

[LF 802]

OCTOBER 2014

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**  
**(2009-2010 Regulation)**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Discuss the Physical Incompatibility and therapeutic incompatibility with the help of suitable examples.
2. Define Prescription. Explain the various parts of Prescription with suitable example.
3. Write about the factors influencing the stability of emulsion.
4. Discuss the various adjuvants used in the formulation of Oral liquid dosage forms.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Displacement value and its importance.
2. Merits and demerits of Suppositories.
3. Surgical dressings.
4. Classify Powders.
5. What is effervescent powders? Explain this with example.
6. Formulas for Calculation of Child dose.

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[LG 802]

APRIL 2015

Sub. Code: 3802

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Classify powders. Give example for each type of powder.  
Mention the merits and demerits of powder.
2. Define Posology. Write the factors affecting dose selection.
3. Classify Suppositories and give a detailed method of preparation.
4. Write the historical background and development of Pharmacy.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Define and differentiate Lotions and liniments.
2. Receiving and handling of prescription.
3. Preparation of throat paints.
4. Explain any one Chemical incompatibility and the method to overcome the problem with example.
5. Describe the techniques of percolation process.
6. Classify suspensions.

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[LH 802]

OCTOBER 2015

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FIRST YEAR**

**PAPER II – PHARMACEUTICS**

*Q.P. Code : 383802*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on :**

**(4 x 10 = 40)**

1. Classification of liquid dosage form with examples.
2. Add an account on different types of pharmacopoeias.
3. Formulation, stability and evaluation of suspension.
4. Define galenicals and add a note on different equipments used in extraction process.

**II. Write notes on :**

**(6 x 5 = 30)**

1. Receiving and handling of prescription.
2. Preparation of throat paints.
3. Write differences between lotion and liniment.
4. Prepare 50 ml of 3% solution of glucose in normal saline.
5. Write short notes on physical incompatibility.
6. Define suppository and add a note on the significances of displacement value.

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[LI 802]

APRIL 2016

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on :**

**(4 x 10 = 40)**

1. Define and classify Monobasic liquid dosage forms with examples. Explain the preparation of Throat paint.
2. Define Suppositories. Write in detail the types of Suppository bases used in the preparation.
3. Classify the Emulsifying Agent with examples. Explain the various tests for identification for types of Emulsion.
4. Define Incompatibility. Explain the chemical and therapeutical incompatibility and methods to overcome.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Give a note on development of Indian Pharmacopoeia.
2. Explain the Soxhlet & extraction process.
3. Write a note on physical incompatibility with examples.
4. Explain the various parts of a Prescription. Give examples.
5. What is Effervescent Powder? Explain its content and packing.
6. Write a note on surgical sutures and ligatures.

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[LJ 802]

OCTOBER 2016

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code : 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define Bi-basic dosage forms. Write the formulation and evaluation of an Emulsion.
2. Define Prescription. Explain the various parts of Prescription.
3. Define Posology. Explain the various factors affecting the dose selection.
4. Classify powders with examples. Write its advantages and disadvantages. Explain the preparation of tooth powder.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write on mouthwashes.
2. Write a note on chemical incompatibility.
3. Write a note on surgical dressings.
4. Write in brief about development of pharmacy profession.
5. Displacement value and its importance.
6. Write a note on isotonic solution and proof spirit.

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[LK 802]

MAY 2017

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define Posology. Discuss various methods for the calculation of children's doses.
2. Explain effervescent granules. Describe the preparation and dispensing procedures for Eutectic mixtures.
3. Define suspension. Detail the formulation of suspensions.
4. What are surgical dressings? Explain classification and its ideal characteristics.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Define prescription. Explain the handling of prescription.
2. Classify mixtures. Narrate the mixtures containing slightly soluble liquids.
3. Syrups and elixirs.
4. Classify suppository bases. Write about polymorphism in the suppository bases.
5. Decoction and infusion.
6. Write short notes on preparation of proof spirits.

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[LL 802]

OCTOBER 2017

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code : 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Discuss the general methods for the preparation of powders. Explain the method of preparation and packing of powders containing volatile substances.
2. Define Emulsion. Give an account of methods of preparation and preservation of emulsion.
3. Define Suppositories. Write the various types. Mention the advantages over the other oral dosage forms.
4. What is incompatibility? Give the classification and explain therapeutic incompatibility with examples.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write a typical modern prescription and label the parts.
2. Liniments and lotions.
3. Absorbable gelatin sponge.
4. Factors influencing drug dose during dose fixation.
5. Double maceration and triple maceration.
6. Ointments and pastes.

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

[LM 802]

MAY 2018

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define Prescription. Explain the various parts of Prescription.
2. Classify Powders with examples. Write its merits and demerits. Explain the preparation of dusting powder.
3. Add an account on different types of Pharmacopoeias.
4. Define Galenicals and add a note on different equipments used in extraction process.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Displacement value and its importance.
2. Write about the formulation criteria for effervescent granules.
3. Write about the preparation of calamine lotion.
4. Gargles and mouthwash.
5. Medicated bandages.
6. Explain factors affecting the stability of emulsion.

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

[LN 802]

AUGUST 2018

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION  
(2009-2010 Regulation)  
FIRST YEAR  
PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define Posology. Explain the factors influencing the determination of dosage forms.
2. Define incompatibility. How will you overcome the physical changes in pharmaceutical preparations?
3. Draw a neat diagram and explain about soxhlet apparatus.
4. Indian pharmacopoeia.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Classify dosage form with suitable examples.
2. Isotonic solutions.
3. Dusting powders.
4. What are collodions?
5. Identification test for emulsions.
6. Primary surgical dressings.

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

[LN 802]

OCTOBER 2018

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define prescriptions and explain their parts with suitable examples.
2. Stability of emulsions.
3. Write in detail about additives used in the Monophasic dosage forms.
4. History and development of pharmacy profession in India.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Method of preparation of tinctures.
2. Enemas and throat paints.
3. Evaluation of suspension.
4. Note about Allegation method.
5. Liquid preparation to be introduced in to the body cavities.
6. Sutures and ligatures.

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

[LO 802]

MAY 2019

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define suppositories. Write the advantages and disadvantages. Explain briefly the types of bases used.
2. Explain the different methods of extraction process.
3. Explain with suitable examples the formulation adjuvants used in monobasic liquids dosage forms.
4. Define incompatibility. Write briefly the physical and chemical incompatibility and methods to overcome the incompatibilities.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Write a note on surgical dressings.
2. Write about preparation of tinctures.
3. Explain the instability conditions of an emulsions.
4. Eutectic and explosive powders.
5. Write various formula used for calculation of children and infants doses.
6. Write a note on isotonic solution and proof spirit.

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

[LP 802]

OCTOBER 2019

Sub. Code: 3802

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**FIRST YEAR**  
**PAPER II – PHARMACEUTICS**

*Q.P. Code: 383802*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define 'Surgical dressings'. Write the ideal characteristics of surgical dressings and explain about bandages.
2. Explain the preparation and Identification methods of emulsion.
3. Define and classify Monophasic liquid dosage forms with examples. Explain the preparation of Throat paint.
4. Classify Suppositories. Give in detail about the method of preparation of suppositories.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Factors affecting the stability of emulsion.
2. Decoction and infusion.
3. Displacement value and its significance.
4. Simple and multiple Maceration.
5. Explain the role of thickening agents in the formulation of suspensions.
6. Merits and Demerits of powders.

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