

[KZ 818]

Sub. Code: 3818

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

THIRD YEAR

PAPER VI – PHARMACEUTICAL FORMULATIONS

Q.P. Code : 383818

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

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

- |   |    |    |    |
|---|----|----|----|
| 1. Explain the different granulation techniques. Discuss the official quality control studies of tablets.               | 17 | 40 | 20 |
| 2. Write in detail about the production facilities for parenteral formulation. Explain the importance of sterilization. | 17 | 40 | 20 |

II. Write notes on :

- |   |   |    |   |
|---|---|----|---|
| 1. Classify pharmaceutical dosage forms.                              | 4 | 10 | 6 |
| 2. Discuss the various excipients used in tablet formulation.         | 4 | 10 | 6 |
| 3. Explain the steps involved in sugar coating of tablets.            | 4 | 10 | 6 |
| 4. Discuss the theory behind emulsifying agents.                      | 4 | 10 | 6 |
| 5. How will you evaluate the physical stability of suspensions?       | 4 | 10 | 6 |
| 6. Explain the different types of ointment bases.                     | 4 | 10 | 6 |
| 7. Define pyrogens. Describe pyrogen test.                            | 4 | 10 | 6 |
| 8. Discuss the theory behind controlled drug delivery system?         | 4 | 10 | 6 |
| 9. Explain the different evaluations involved in transdermal patches. | 4 | 10 | 6 |
| 10. What are ocuserts? Explain its formulation methodology.           | 4 | 10 | 6 |

\*\*\*\*\*

[LA 818]

APRIL 2012

Sub. Code: 3818

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

THIRD YEAR

PAPER VI – PHARMACEUTICAL FORMULATIONS

*Q.P. Code : 383818*

**Time : 3 hours  
(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

	<b>Pages (Max.)</b>	<b>Time (Max.)</b>	<b>Marks (Max.)</b>
1. Define tablets. Explain in detail about different excipients used in tablets.	17	40	20
2. Define an emulsion. Explain in detail about formulation and evaluation of an emulsion.	17	40	20

**II. Write notes on :**

1. Wet granulation Method and its limitations.	4	10	6
2. Raw materials used in hard gelatin capsule shell.	4	10	6
3. Glass containers used in parenterals.	4	10	6
4. Explain the concept of controlled drug delivery systems.	4	10	6
5. Define a dosage form. Give the classification of dosage form.	4	10	6
6. Ointment bases used in ophthalmic preparation.	4	10	6
7. Advantages of coating of tablets.	4	10	6
8. Methods of manufacturing soft gelatin capsules.	4	10	6
9. Factors affecting absorption of Ointment.	4	10	6
10. Weight variation test for tablets.	4	10	6

\*\*\*\*\*

[LB 818]

**OCTOBER 2012**  
**PHARM. D DEGREE EXAMS**  
**THIRD YEAR**  
**PAPER VI – PHARMACEUTICAL FORMULATIONS**  
*Q.P. Code : 383818*

**Sub. Code: 3818**

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

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

- |   |    |    |    |
|---|----|----|----|
| 1. Explain the different production methods of soft gelatin capsules with reference to capsule sizes?                         | 17 | 40 | 20 |
| 2. Differentiate small volume and large volume parenterals ?<br>Explain the various official parenteral container evaluation? | 17 | 40 | 20 |

**II. Write Note on:**

- |   |   |    |   |
|---|---|----|---|
| 1. Explain different types of tablets?                                      | 4 | 10 | 6 |
| 2. What are the factors affecting skin absorption?                          | 4 | 10 | 6 |
| 3. Describe wet granulation in tablet formulation?                          | 4 | 10 | 6 |
| 4. Discuss different types of emulsions.                                    | 4 | 10 | 6 |
| 5. Explain the different additives used in parenteral formulations.         | 4 | 10 | 6 |
| 6. Explain controlled drug delivery through buccal route of administration. | 4 | 10 | 6 |
| 7. Define jellies? Explain the different types of jellies?                  | 4 | 10 | 6 |
| 8. Write the merits and demerits of suspensions.                            | 4 | 10 | 6 |
| 9. Define solutions? Discuss the stability of solutions.                    | 4 | 10 | 6 |
| 10. Explain the bloom strength.   | 4 | 10 | 6 |

\*\*\*\*\*

[LC 818]

**APRIL 2013**  
**PHARM. D DEGREE EXAM**  
**THIRD YEAR**  
**PAPER VI – PHARMACEUTICAL FORMULATIONS**  
*Q.P. Code : 383818*

**Sub. Code: 3818**

**Time : 3 hours**

**Maximum : 100 marks**

**I. Elaborate on :**

**(2x20=40)**

1. Explain the formulation of tablet by wet granulations process ? Discuss the different steps involved in tablet compression?
2. What is Transdermal Patches? Explain the criteria of suitable drug candidates for transdermal patches? Discuss the different types of Transdermal Patches?

**II. Write notes on :**

**(10x6=60)**

1. Name the different types of coating? Explain any one
2. Explain any one method of preparation of soft gelatin capsule
3. Discuss hard gelating capsule quality control studies?
4. Discuss the methods used in emulsion identification
5. What are the applications of emulsions
6. Describe any one method of parenteral sterilization as per official monograph
7. Explain theory of sedimentation?
8. Explain preparation methodology of suppositories?
9. Discuss the nasal absorption enhancers
10. Define and classify implants? Discuss any one type of implants

\*\*\*\*\*

[LD 818]

OCTOBER 2013

Sub. Code: 3818

**PHARM. D DEGREE EXAMINATIONS**  
**THIRD YEAR**  
**PAPER VI – PHARMACEUTICAL FORMULATIONS**

*Q.P. Code : 383818*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions in the same order**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain briefly about the sugar coating and film coating.  
Write the processing problems and its remedies for tablet coating.
2. Define prolonged action dosage form. Write their advantages and disadvantages.  
Explain different mechanisms of drug release from prolonged action dosage forms.

**II. Write notes on:**

**(10 x 3 = 30)**

1. Write a note on pharmaceutical dosage forms
2. List out the tests used for the determination of emulsion and explain any one of them in detail.
3. Explain the factors affecting the absorption of drug from rectal drug delivery system
4. Discuss the agents used to enhance the solubility of therapeutic agents in solutions
5. Write the precautions to be taken before administration of ophthalmic preparation
6. Write the note on excipients used in the direct compression of tablets
7. Explain the evaluation of hard gelatin capsules
8. Write the mechanism of disintegration of tablets
9. Write the advantages of parenteral preparations
10. Explain the ideal drug candidates for the buccal drug delivery system

\*\*\*\*\*

[LE 818]

APRIL 2014

Sub. Code: 3818

**PHARM. D DEGREE EXAMS  
THIRD YEAR  
PAPER VI – PHARMACEUTICAL FORMULATIONS**

*Q.P. Code : 383818*

**Time : 3 hours**

**Maximum : 70 marks**

**I. Elaborate on :**

**(2x20=40)**

1. List out and explain the quality control evaluation of tablets.
2. What are implants? Explain their merits and demerits and explain the approaches to the development of implantable therapeutic system.

**II. Write notes on :**

**(10x3=30)**

1. Explain the steps in sugar coating.
2. Rotary die process in the manufacture of soft gelatin capsule.
3. Classify dosage form on the basis of physical state.
4. Buccal tablets.
5. Jellies.
6. Glass containers used for parenterals.
7. Methods to enhance the solubility of substance.
8. Applications of suspensions.
9. Explain about flocculation and creaming.
10. Elixirs.

\*\*\*\*\*