

Pharmaceuticals
348

Press Copy

31-116

Year 2016 1st Annual

Examination: Pharm-D (Second Professional)
Subject: Pharmaceutics-II (NEW COURSE)
(Dosage Form Science)
Time allowed: 3 Hours
Maximum Marks: 100

Paper: I

Pass Marks: 50

Note: Attempt any Five questions. All questions carry equal marks.

Q. No.	Questions	Marks
1.	a) Define the following terms with examples: i. Medicated Elixirs ii. Collodions iii. Propellants iv. Soft Gelatin Capsules	3 3 3 3
	b) Explain Oral Rehydrating Solutions.	8
2.	a) Explain desired features of transdermal drug delivery system.	10
	b) Explain features desired in pharmaceutical suspension.	10
3.	a) Explain various methods to prepare emulsions.	10
	b) Describe differences between hard contact lenses and soft contact lenses.	10
4.	a) What are different components of syrup? Explain in detail?	10
	b) How simple syrup is prepared?	10
5.	a) Define aerosols. Explain its principle and valve assembly in detail.	10
	b) Write a detailed note on Glycerogelatin.	10
6.	a) Explain various design features of transdermal drug delivery system in detail.	10
	b) Define tablets and describe their various types.	10
7.	Write short notes on the following: i. Yellow Ointment USP ii. Cocoa butter NF iii. Oriented Wedge Theory iv. Direct Compression Tablet	5 5 5 5

31-116-300

Examination: Pharm. D. (Second Professional) 2nd Annual Examination, 2014

Subject: Pharmaceutical Preparation

Paper: I

Time Allowed: 3 Hours

Max. Marks: 100

Pass Marks: 50

Note: Attempt any five questions. All questions carry equal marks.

Q No.	Questions	Marks
Q.No.1:	<p>a) Define the following terms with examples:</p> <ul style="list-style-type: none"> I. Effervescent Granulated Salts ✓ II. Disintegrants ✓ III. Slugging ✓ IV. Rubefacient ✓ V. Emollient ✓ <p>b) Define the TABLETS and describe their various types ✓</p>	02 each 10
Q.No.2:	<p>a. What are Chemical Permeation Enhancers and Physical methods that can increase Percutaneous Absorption of Therapeutic Agents? ✓</p> <p>b. Write a note on Oral Rehydration Solutions in detail. ✓</p>	10 10
Q.No.3:	Write down in detail the various methods of EXTRACTION? ✓	20
Q.No.4:	<p>a. What are the different components of Syrup? Explain in detail. ✓</p> <p>b. How a Simple Syrup is prepared? ✓</p>	10 10
Q.No.5:	<p>a. What are Colloidal Dispersions? ✓</p> <p>b. How many types of injectable materials are present according to USP? ✓</p>	10 10
Q.No.6:	Write down a difference between: <ul style="list-style-type: none"> i. A Single dose container and Multiple dose containers. ✓ ii. Emulsion and Micro-Emulsions. ✓ 	10 10
Q.No.7:	Write a detail note on the followings; <ul style="list-style-type: none"> i. Cold Filling and Pressure Filling of Aerosols. ✓ ii. Glycero-Gelatins. ✓ iii. Yellow Ointment USP. ✓ iv. Direct Compression Tableting. ✓ 	5 each

Examination: Pharm. D. (Second Professional) 1st Annual Examination, 2013

Subject: Pharmaceutical Preparation

Paper: 1

Time Allowed: 3 Hours

Max. Marks: 100

Pass Marks: 50

Note: Attempt any five questions. All questions carry equal marks.

Q No.	Questions	No. of Marks
Q.No.1:	a) Define the following terms with examples: i. Magma ii. <u>Extracts</u> iii. <u>Plasters</u> iv. <u>Topical Tinctures</u> v. Otic Suspensions b) Write a detail note on Antibacterial Oral Suspension	02 each 10
Q.No.2	a) Explain the Enteric Coating of tablets? b) What are Hard and Soft Gelatin Capsules? Write a note on Hard Gelatin Capsules	10 10
Q.No.3	Differentiate the PERCOLATION and MACERATION. Enumerate the various methods of extraction?	10 10
Q.No.4	a) Define Transdermal Drug Delivery Systems (TDDS)? Explain the various designing features of TDDS. b) Write about the Magnesium Citrate Oral Solutions.	10 10
Q.No.5	a) What is difference between Solvent and Vehicle? Write a note on solvents and vehicles for injections. b) Describe the <u>WET GRANULATION</u> method for tablets.	10 10
Q.No.6	a) Describe the Classification of GELS and explain in detail the various types of GELS. b) Write a note on <u>EFFEREVASCENT granulated salts</u> ?	10 10
Q.No.7:	Explain the followings; 1. Liniments and Lotions 2. Syrups and Elixirs 3. Interfacial film theory of emulsion 4. Flocculated and Deflocculated Suspensions	5 each

31-113-300

Examination *Pharm D, (Second Prof.)*Subject *Pharmacology II*Paper *I (Pharmaceutical Preparations)*Time Allowed: *03 Hours*Pass Marks *50*Max Marks: *100*

11

S No.	PLEASE SPELL TERMS AND NAMES IN CAPITAL LETTERS	Marks
	Attempt Five Questions in all.	
Q2(a)	Define the following terms.	(10)
i	Solubility	
ii	Elixirs	
iii	Dissolution	
iv	Percolation	
v	Tinctures	
(b)	Explain IPECAC Syrup, USP.	(10)
Q3(a)	Define GELS, Explain the types and Classify.	(10)
(b)	What is Bentonite Magma, NF?	(10)
Q4	Write a detailed note on FILM-COATED TABLETS.	(20)
Q4(a)	What is the difference between Multiple and Single dose containers?	(10)
(b)	What are Oral Hygienic Products?	(10)
Q5(a)	How TINCTURES are prepared by Maceration	(10)
(b)	Explain Tablet Dissolution Test in detail	(10)
Q6(a)	Explain official types of Injections in detail.	(10)
(b)	What are Soft Gelatin Capsules?	(10)
Q7	Write short notes on following:	
(a)	Phenobarbital Elixir	(5)
(b)	Process of Slugging	(5)
(c)	Maceration	(5)
(d)	Oral colonic lavage solution.	(5)

II 22-8-17 Press Copy
Examination: Pharm. D. (Second Professional)
Subject: Pharmaceutics-II (NEW COURSE)
(Dosage Form Science)
Time allowed: 3 Hours
Maximum Marks: 100

368

Year 2017 1st Annual

Paper: I

31-117

Pass Marks: 50

Note: Attempt any Five questions. All questions carry equal marks.

Q. No.	Questions	Marks
1.	a) Define the following terms with examples. i. Mottling ii. Purified Water, USP iii. Antimicrobial Preservative iv. <u>Collodion</u>	(3) (3) (3) (3)
2.	b) Explain various features desired in a pharmaceutical suspension? a) Define sugar coating and various steps involved in sugar coating? b) Write a detailed note on water soluble and water removable bases for ointments?	(8) (10) (10)
3.	a) What are various components of syrups? Explain in detail? b) Explain extemporaneous compounding of suspensions?	(10) (10)
4.	a) Explain pyrogen test in detail? b) Explain various design features of transdermal drug delivery system?	(10) (10)
5.	a) Define micromeritics and write a detailed note on bulk and divided powders? b) Explain direct compression tableting?	(10) (10)
6.	a) Classify suppository bases according to their physical characteristics? b) Describe oral colonic lavage solution?	(10) (10)
7.	Write note on the following. i. Yellow ointment USP ii. Oriental wedge theory iii. Plasters and Pastes iv. Elixirs	(5) (5) (5) (5)

31-117-300

PRESS COPY

31-215 Year 2015
1st Annual

Examination: Pharm. D. (Second Professional)

Subject: Pharmaceutical Preparation Paper: 1

Time Allowed: 3 Hours

Max. Marks: 100

Pass Marks: 30

Note: Attempt any five questions. All questions carry equal marks.

Q No.	Questions	No. of Marks
Q.No.1:	a) Define the following terms with examples: i. Effervescent Granules ii. Trochures iii. HBI. System iv. Dosage Form v. Aerosol Propellant b) Write the General Method to Prepare Ointment.	02 each 10
Q.No.2:	a) Write down the Physical Methods that can increase Percutaneous Absorption of Therapeutic Agents. b) Explain Quality Control Test for Suppositories.	10 10
Q.No.3:	a) What are Oral Rehydration Solutions? Explain its Composition. b) What are Effervescent Granules? Explain their method of preparation.	10 10
Q.No.4:	a) Explain Design features of Transdermal Drug Delivery System. b) Discuss in detail the two examples of Oral Emulsions.	10 10
Q.No.5:	a) Explain Extemporaneous Compounding of Suspensions. b) Write in detail the difference between Powders and Granules.	10 10
Q.No.6:	Define Extraction and Explain different methods of Extraction in detail.	20
Q.No.7:	Write Note on any FOUR of the followings; 1. Sterile Water for Injection USP 2. Extraction 3. Pharmaceutical Requirements for Ophthalmic Drug Delivery 4. Medicated and Non-Medicated Elixirs 5. Various Types of Tablets	5 each

31-215-300.

31-115

PRESS COPY

31-115 Year 2015 1st Annual

Examination: Pharm. D. (Second Professional)

Subject: Pharmaceutical Preparation

Paper: 1

297

Time Allowed: 3 Hours

Max. Marks: 100

Pass Marks: 50

Note: Attempt any five questions. All questions carry equal marks.

Q No.	Questions	No. of Marks
Q.No.1:	a) Define the following terms: i. Surface Active Agent ii. Geometric Dilution iii. Levigating Agents iv. Bulk Powders v. <u>Aquacoat</u> b) Write are the different types of official injections, explain.	02 each 10
Q.No.2:	a) Write different factors affecting Percutaneous Absorption. b) Explain fatty basis in detail to prepare Suppositories.	10 10
Q.No.3:	a) Give various examples of Transdermal Drug Delivery System in detail. b) Differentiate between Liniments and Lotions.	10 10
Q.No.4:	a) Explain various components of Syrup. b) Write down the classification and types of Gels in detail.	10 10
Q.No.5:	a) What are the Emulsifying Agents? Give detail. b) Discuss in detail the Single Dose and Multiple Dose Containers.	10 10
Q.No.6:	Define Aerosols. Explain its Principle and value Assembly in detail.	20
Q.No.7:	Write Note on any FOUR of the followings; 1. Oriented Wedge Theory 2. Coca Butter NF 3. Glycerogelatins 4. Yellow Ointment USP 5. Use of Soft Gelatin Capsules	5 each

Abd - 2015-15 - Pharm

31-115-30.

Roll No: 439

3-9-18

31-118

PRESS COPY
Year 2018 1st Annual

Examination Pharm.D (2nd Professional)
Subject Pharmaceutics-II (New Course) Paper I (Dosage Forms Science)
Time Allowed:- 3 Hours Pass Marks 50
Max Marks:- 100

S No	PLEASE SPELL TERMS AND NAMES IN CAPITAL LETTERS	Marks
------	---	-------

Note: Attempt any Five questions. All questions carry equal marks.

Q. No.	Questions	Marks
Q.1	Define the following terms	(20)
	1. Micromeritics	(4)
	2. Lozenge	(4)
	3. Surface active agents	(4)
	4. Slugging	(4)
	5. Suspension	(4)
Q.2	(a) Explain quality control tests of tablets in detail.	(12)
	(b) Write a note on yellow ointment, USP in detail.	(8)
Q.3	Write down various pharmaceutical requirements to prepare ophthalmic preparations.	(20)
Q.4	Explain various methods to prepare ointment.	(20)
Q.5	Define extraction and various method of extraction in detail.	(20)
Q.6	(a) What are the various components of syrups?	(12)
	(b) Explain medicated elixirs with an example.	(8)
Q.7	Write short note on the followings	(20)
	1. LAL test	(5)
	2. Sterile water for injection	(5)
	3. Gels and magmas	(5)
	4. Spirits	(5)

31-118-300

14-10-20

343
31-120

BAHAUDDIN ZAKARIYA UNIVERSITY, MULTAN
Faculty of Pharmacy
Examination: 1st Annual 2020 (Pharm. D. 2nd Prof.)
Subject: Pharmaceutics-II (Dosage Form Science)

Paper: I

Time Allowed:- 3 Hrs

Max. Marks:- 100

S. No.	Questions	No. of Marks
	Note: Attempt five questions. All question carry equal marks.	
Q. No. 1 (4)	(A). Define following (i) iv Slugging (ii) v Levigation (iii) v Collodion (iv) v Effervescent Granules (v) v Geometric Dilution (B) Differentiate between HARD and SOFT CONTACT LENSES?	10 (2each) 10
Q. No. 2	Explain various Design Features of Transdermal Drug Delivery System?	20
Q. No. 3 (3)	(A) Define Powders and explain Bulk and Divided powders? (B) Write down Tablet Disintegration Test in detail?	10 10
Q. No. 4 (1)	(A) What are compressed Tablets, explain various steps of wet granulation? (B) Define oleaginous bases of suppositories, why Coca Butter is the most preferable bases in suppositories?	10 10
Q. No. 5 (2)	(A) What are the Enteric Coated Tablets, give example? (B) Define Gels and its different types <u>Last</u>	10 10
Q. No. 6	(A). Define <u>Maceration</u> , how it is performed? (B). Explain methods to prepare Syrups, give any two examples of medicated syrups?	10 10
Q. No. 7 S	Write notes on the following (i) A. PYROGEN TEST (ii) B. AEROSOL ASSEMBLY (iii) C. STERILE WATER FOR INJECTION (WFI) (iv) D. TRANSDERMAL SCOPOLAMINE PATCH	(20) 5 Each

31-120-300.

Year 2021

31-221

Name of Examination Pharm. D. 2nd Professional 2nd Annual Examination, 2021

Subject: Pharmaceutics II (Dosage Forms Science)

Paper I

Time Allowed: 3 hrs.

Max. Marks: 100

Note: Attempt any FIVE questions. All questions carry equal marks.

	Questions	No. of Marks
Q.1 a.	DEFINE THE FOLLOWING TERMS:- <ul style="list-style-type: none"> i. PROPELLANTS ii. EMULSIONS iii. FLUID EXTRACTS 	4 4 4
b.	WRITE A NOTE ON COLLODIONS?	8
Q.2	EXPLAIN DESIGN FEATURES OF TRANSDERMAL DRUG DELIVERY SYSTEMS?	20
Q.3.a.	DEFINE SYRUPS AND COMPONENTS OF SYRUPS IN DETAIL?	20
Q.4.a.	EXPLAIN QUALITY CONTROL TEST OF TABLETS IN DETAIL?	20
Q.5.a.	EXPLAIN EFFERSCENT GRANULES IN DETAIL?	10
b.	WHAT ARE MEDICATED POWDERS, GIVE DETAIL?	10
Q.6.a.	WRITE A NOTE ON PYROGEN TEST AND LAL TEST USED IN PARENTERALS?	20
Q.7	WRITE NOTE ON ANY TWO OF THE FOLLOWING:- <ul style="list-style-type: none"> i. GLYCEROGELATINS SUPPOSITORIES ii. CREAMS iii. SUSPENSIONS 	10 X 2 = 20

7 1-300

31-121-

Name of Examination Pharm. D. 2nd Professional 2nd Annual Examination, 2021
 Subject: Pharmaceutics II (Dosage Forms Science) Paper I
 Time Allowed: 3 hrs

922

Year 2021

Name of Examination Pharm. D. 2nd Professional 1st Annual Examination, 2021
 Subject: Pharmaceutics II (Dosage Forms Science) Paper I
 Time Allowed: 3 hrs. Max. Marks: 100

Note: Attempt any FIVE questions. All questions carry equal marks.

	Questions	No. of Marks
Q.1 a.	DEFINE THE FOLLOWING TERMS:- i. ACTIVE INGREDIENT ✓ ii. DISINTEGRANT ✓ iii. LEVIGATING AGENT ✓ iv. SLUGGING ✓ EXPLAIN VARIOUS STEPS OF WET GRANULATION IN DETAIL? ✓	3 3 3 3
b.	EXPLAIN VARIOUS STEPS OF WET GRANULATION IN DETAIL? ✓	8
Q.2 a.	WRITE A NOTE ON ABSORPTION BASES USED IN PREPARING OINTMENTS? ✓	10
b.	EXPLAIN PERCUTANEOUS ABSORPTION ENHANCERS? ✓	10
Q.3 a.	DEFINE ELIXIRS AND EXPLAIN MEDICATED ELIXIRS? ✓	10
b.	WHAT IS COCOA BUTTER NF, EXPLAIN? ✓	10
Q.4 a.	DEFINE SUGAR COATING AND VARIOUS STEPS INVOLVED IN IT? ✓	10
b.	WRITE DOWN USES OF SOFT GELATIN CAPSULES? ✓	10
Q.5 a.	DEFINE MACERATION AND EXPLAIN IT IN DETAIL? ✓	10
b.	WHAT ARE ORAL REHYDRATION SOLUTIONS? ✓	10
Q.6 a.	WHAT ARE AEROSOL SYSTEMS AND THE ADVANTAGES OF AEROSOL DOSAGE FORM? ✓	10
b.	WRITE A NOTE ON OFFICIAL TYPES OF INJECTIONS? ✓	10
Q.7	WRITE NOTE ON ANY TWO OF THE FOLLOWING:- i. SINGLE DOSE AND MULTIPLE DOSE CONTAINERS ii. HARD AND SOFT CONTACT LENSES iii. GELS AND MAGMAS	10 X 2 = 20

31-121-300.

31-123

PRESS COPY

Name of Examination: Pharm.D. 2nd Professional, 1st Annual Examination 2023Subject: Pharmaceutics II (Dosage Forms Science)
Maximum Marks: 100Paper: I ✓
Time allowed: 3 hrs

1013

Note: Attempt Five questions

Sr. No	Questions	No. of Marks
Q.1 (a) ✓	Define the following terms? I- Disintegrant II- Propellant III- Emollient IV- Antacid V- Elixirs	(10)
(b)	Explain oleaginous and miscellaneous basis in detail?	(10)
Q.2 (a) ✓	Explain metered dose inhalers along with dual valve mechanism?	(10)
(b)	What are official types of injections? Explain in Detail.	(10)
Q.3 ✓	Explain design features of Transdermal Drug Delivery System?	(20)
Q.4 (a)	Write a note on Mineral oil emulsions?	(10)
(b)	Explain difference between syrup and elixir.	(10)
Q.5. (a) ✓	Explain Pharmaceutical requirements for ophthalmic use with regard to sterility, preservation, isotonicity and Buffering.	(10)
(b)	Write down general classification of gels in detail?	(10)
Q.6	Write down the various methods of extraction in detail?	(20)
Q.7 ✓	Write note on Any two: (I) Transdermal Nicotine (II) ✓ Pyrogen test (III) ✓ Tablet disintegration test	(10) (10) (10)

31-123-300.