- [This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 1672

Name of the Course : D. Pharm. - Ist year (2015)

Name of the Paper : Pharmaceutics - I

Duration : 3 Hours

Maximum Marks : 80

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

2. Attempt any five questions.

3. All questions carry equal marks.

4. Different parts of a question should be answered in sequence.

1. Explain the continuous hot extraction for preparation of extract and tinctures.

(16)

Roll No.....

- Describe dry heat sterilization and sterilization by filtration. Give the applications of aseptic techniques and sterilization in hospitals. (10+6)
- 3. (a) Give the Objectives of size reduction. With the help of schematic representation explain the working of Ball mill and give its uses. (10)
 - (b) Discuss the construction and working of Planetary mixer. (6)
- 4. Explain any two of the following:
 - (a) Freeze Dryer

- (b) Cyclone Separator
- (c) Evaporating Still and Evaporating Pan

(8+8)

- 5. List different types of compressed tablets. Explain evaluation f tablets. Write an account of enteric coating. (3+8+5)
- 6. What are the advantages and disadvantages of Tablets as a dosage form? Discuss on the step involved in the production of tablets by wet granulation method. (16)
- 7. Write notes on any three of the following:
 - (a) Filling of capsules
 - (b) Semisoild dosage forms
 - (c) Pharmacopoeia
 - (d) Toxiods

(6,5,5)

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 1673

Roll No.....

Name of the Course

: D. Pharm. - Ist Yr. (2015)

Name of the Paper

: II - Pharmaceutical Chemistry - I

Duration

: 3 Hours

Maximum Marks

: 80

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Attempt any five questions.
- 3. All questions carry equal marks.
- 1. (a) What do you understand by limit tests? Discuss the principle, theory and procedure involved in the limit test of chloride and iron. (10)
 - (b) Discuss the principle, theory and procedure involved in the limit test of arsenic.

(6)

- (a) Define impurities and discuss various sources of impurities in pharmaceutical substances with suitable examples.
 - (b) What are the significances of identification test? Discuss different methods of quality control.(8)
- 3. What are radio-pharmaceuticals? Discuss α , β & Υ radiations and their biological effects. Write the uses of different radioactive isotopic formulations. (16)
- 4. Write note on the following (any four)
 - (a) Significant errors

8.	(b)	G M counter			
	(c)	Dental products			i lore
	(d)	Emetics			
	(e)	Bismuth sub carbonate and Kaolin			(4×4)
5.	Wh	at is replacement therapy? Discuss diffe	erent electro	lytes used in replac	ement
	ther	rapy along with their preparations.			(16)
6.	(a)	Define saline cathartics. Discuss the pre-	paration and	l uses of potassium t	artrate
		and magnesium sulphate.			(8)
	(b)	Write assay procedure and uses of amn	nonium chlo	ride, zinc sulphate,	iodine
		and calcium gluconate.			(8)
7.	Wri	ite the method of preparation, uses and st	orage condi	tions of the followin	ng (any
	fou	ur)			
	(a)	Calcium hydroxide			
	(b)	Sodium thiosulphate .			
	(c)	Strong ammonium hydroxide			
	(d)	Hypo phosphorous acid			
	(e)	Silver nitrate			(4×4)
8.	Wh	nat are the uses of antacids? Discuss	different t	ypes of antacids u	sed in
	pha	armaceutical preparations.			(16)

[This question paper co	ontains 2 printed pages.]	, e. 195
Sr. No. of Question Pape	er : 1674	Roll No
Name of the Course	: D. Pharm Ist Yr. (2015)	munidata's 191)
Name of the Paper	: III Pharmacognosy	
Duration	: 3 Hours	
Maximum Marks	: 80	
- Value of America	Manual montesir efficació justimo de dese ju-	
Instructions for Cand	idates	5 7
1. Write your Roll No	o. on the top immediately on receipt of	this question paper.
2. Attempt any five q	uestions.	bilisch L
3. All questions carry	equal marks.	
	and use	
1. Discuss history and	scope of pharmacognosy?	(8×2=16)
2. Discuss pharmacolo	gical system of classification and Undeli	berate adulteration in
detail.		(8×2=16)
3. Write in short (two)		
(i) Lavative drugs	of mais welcon House System, These	

- 4. Write biological source, main chemical constituents and uses of (any four):
 - (i) 'Cascara

(iii) Astringent

(ii) Cardiotonic drugs

(ii) Coriander

167	4	1.00, 2, building Capathous	rgng nothagg but T
	(iii)) Ergot	
	(iv)) Colchicum	
	(v)	Rauwolfia vzagoumana III	ione of the Paper
	(vi)) Neem	(4×4=16)
5.	(a)	Write biological source and uses of Diastase, lemongrass of	oil, honey and guar
		gum.	Trol makership
	(b)	Discuss collection and preparation of Opium of discuss abo	out Silk.(8×2=16)
6.	Dra	aw well labelled diagram for T.S. of (any two):	
	(a)	T.S. of Clove bud	
	(b)	T.S. of Cinchona bark	
	(c)	T.S. of Senna leaf	(8×2=16)
7.	Wri	rite chemical tests for identification of (any two)	
	(i)	Alkaloids	
	(ii)	Tannin	
	(iii)) Resin and saponin	(8×2=16)
8.	Wri	rite definition, properties, classification and chemical tests for	or identification of
	glyc	ycosides.	(16)

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 1675

Roll No.....

Name of the Course

: D. Pharma - Ist Yr. (2015)

Name of the Paper

: IV Biochemistry and Clinical Pathology

Duration

: 3 Hours

Maximum Marks

: 80

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

- Attempt any five questions.
- All questions carry equal marks.
- What are polypeptides? Classify amino acids. Write the qualitative test for amino acids. (4+4+8)
- Classify enzymes? Discuss the various factors affecting enzyme action. Write pharmaceuticals importance of enzymes. (4+6+6)
- Explain minerals and their role in living system. Discuss in brief the diseases related to deficiency of minerals. (8+8)
- Classify Carbohydrates with appropriate examples. Differentiate between reducing sugar and non-reducing sugar on the basis of qualitative test. Write the significance of carbohydrate metabolism. (4+4+8)
- What are the lipids and classify them? Discuss the chemistry involved in lipids.
 Explain the qualitative test for identification of lipids. (6+6+4)

- 6. Define vitamins. Discuss various types of vitamins. Discuss the chemistry involved in vitamins and their significance. (2+8+6)
- 7. Briefly explain the following
 - (a) Abnormal metabolism of proteins
 - (b) Explain the role of lymphocytes and platelets in health and diseases. (8+8)

[This question paper contains 4 printed pages.]

Sr. No. of Question Paper : 1676

Roll No.....

Name of the Course

: D. Pharm. - Ist Year. (2015)

Name of the Paper

: D - V Human Anatomy and Physiology

Duration

: 3 Hours

Maximum Marks

: 80

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.

Attempt any five questions.

All questions carry equal marks.

 Illustrate appropriate example and figures in support to your answer wherever necessary.

 Commence writing the answer to each question on a new page. Complete every question, and all its sub-parts, in continuation.

1. (a) Define the following (Any three):

- (i) Neurotransmitter
- (ii) Action potential
- (ii) Homeostasis

 (2×3)

(iv) Immunity

What are the different types of Leukocytes. Describe are their functions.

(10)

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	2	
2.	(a) Define the following in context of Human Anatomy. Give one example	
	(Any three):	for each
	(i) Superior	
de	(ii) Proximal	
7 0 2/41	(iii) Medial	
	(iv) Coronal	(2×3)
	(b) Describe the valves present in the boost with	,
6	the varves present in the heart with respect to their; types, lo	ocation,
	function and states during the cardiac cycle.	(10)
3.	(a) Comment on the following statements with sainting	
٥.	(a) Comment on the following statements with scientific justifications (Any	three):
	(i) Two or more bones are joined by Tendons at joints.	
	(ii) Autonomic Nervous System innervates the organs through (Cranial
	Nerves.	
	(iii) Normal heart rate is governed by Peripheral Nervous System.	
	(iv) Low pitch sound is heard with the help of Semicircular Canals.	(2×3)
	(b) Compare and contrast between the different types of muscle in human	body.
		(10)
4.	a) State, giving appropriate scientific reasons, whether following statement	
	true or false:	nts are
	(i) Human beings can not survive without Gall bladder.	
	(ii) Pulmonary arteries carry oxygenated blood towards the heart.	
	(iii) Pancreas is an Endocrine Gland.	(2×3)
(b) Draw a neat, labeled diagram of Neuron. Explain the conduction of Im	
	through it.	
		(10)

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5. (a)	Define the following (Any three):	
	(i) Gustatory	
	(ii) Isotonic	
	(iii) Pulmonary	
	(iv) Acidosis	(2×3)
(b)	Describe physiology of urine formation.	(10)
	Address of the Paris In	
6. (a)	What are the functions of each of the following (Any three):	
	(i) Ribs	
	(ii) Lacteals	
	(iii) Appendix	
	(iv) Mitochondria	(2×3)
(b)	What are the different types of Blood Groups. Explain their	significance in;
(0,	pregnancy and blood transfusion.	(10)
7. (a)	Name four disorders for each of the following (Any three):	
	(i) Liver	
	(ii) Blood	
	(iii) Eye	
	(iv) Digestive tract	(2×3)
(b	Describe the mechanisms of Respiration.	(10)
0 (The his lattle convolction in one or two sentences each for the m	nost appropriately

matched pairs (Any three):

(i) Autoinhibition
 (a) Vit B₁₂ deficiency
 (ii) Negative Feedback
 (b) Stimulated by Hypoxia
 (iii) Positive Feedback
 (c) Intrinsic factor deficiency
 (iv) Pernicious Anaemia
 (d) Testosterone from testis
 (v) Sickle cell Anaemia
 (e) Nor epinephrine from Adrenergic neurons
 (vi) Erythropoiesis
 (f) Blood Glucose after digestion

(b) Name the different parts of the Lymphatic System. Explain their functions.

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[Ih	its question paper contains 2 printed pages.]
Sr.	No. of Question Paper : 1677 Roll No
Nai	me of the Course : Diploma in Pharmacy – Ist Yr. (2015)
Naı	me of the Paper : VI – Health Education and Community Pharmacy
Dur	ation : 3 Hours
Ma	ximum Marks : 80
Ins	tructions for Candidates
1.	Write your Roll No. on the top immediately on receipt of this question paper.
2.	Attempt any five questions.
3.	All questions carry equal marks.
, i	the control of the state tenes of the collaboration of the soluble vitabular of
1.	(a) What is hardness of water? How can we remove different types of hardness from drinking water?
-10	A CONTRACT OF THE PROPERTY OF
	(b) Discuss various staining techniques of microorganisms. (8)
2.	Write short notes on:
	(a) Emergency treatment in burns
	(h) (c. 1) 1 1 1 1 1 1 1 1 1
	(b) Solid waste disposal and its control (8+8)
3.	Define the term "Demography". Explain demographic cycle and its importance in
	family planning. (16)
4.	(a) Discuss various indicators of health. (8)
	Co
	(b) Classify different types of disinfectants. Give disinfection procedure for faeces and urine.
	and urine. (8)
	P.T.O.

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	Wri	te short notes on :	
	(a)	Mental disorders.	
	(b)	Fertility	
	(c)	Hormonal method of contraceptive	
	(d)	Stroke (4×	(4)
		A Company of the Comp	
ó.	Dis	cuss their causes, symptoms, mode of transmission, prevention and control	lof
	the	following diseases. The many father many got below the large and	
	(a)	Tuberculosis .	
	(b)	Malaria	⊦8)
7.	(a)	Give the sources and deficiency diseases caused by fat soluble vitamins.	(8)
	(b)	What is a non-communicable disease? Describe the causative factor	ors,
	81	symptoms, prevention and control of cancer.	(8)