Reg	istration no:											
257		257	257		257		257		257		25	
Total Nu	mber of Pages:	: 2								PHARM 5PH201		
	:	2 nd Seme	ster Regul	ar / Ba	ick Exa	minatio	on 2016	-17				
(New)		PHARMACEUTICAL ANALYSIS - I BRANCH: Pharmacy										
					'harmac Hours	Ey						
257		257	257 M	ax mar	ks: 100		257		257		25	
	A marry	ou Dout A v	-		CODE: Z		fuam th	a Dawt D				
	Allswo		which is con es in the rig	•	•	•						
		The light	Part-A (An	_	_			. 5.				
Q.1	Answer the f	following:	`		•	,			((2 x 10)		
a) ₇	All the comp	lex are che	lating agents	(True/	False)		257		257		25	
b)	In titration the which is analy		•	•		ourette is	called _	an	ıd			
c)		_is used as	coating ma	terial in	n Vohlar	d's metho	od of titr	ation.				
d)	In preparation	n of 0.1N p	erchloric ac	id		&		are used	as			
257	solvents.	257	257		.257		257		257		25	
e)	Give the full							_ titrations.				
f)	Two types of	iodine titra	ntion are			&	·					
g)	agent.	is used as	a masking aş	gent an	d		is used a	as a demaski	ng			
h)	EDTA is the titrants are	most prefer	rred titrant in	n comp	lexometr	ric titratio	on. The o	other two	257		25	
i)	is p	referred ov	er sodium n	nethoxi	de in nor	1-aqueou	s titratio	n as it does	not			

and

Q.2 Answer the following

for _

(2x10)

- a) Differentiate between qualitative and quantitative analysis.
- b) Explain ionic product of water.
- c) Define and differentiate between accuracy and precision?
- d) Write down the principle for Vohlard's method

Titration error is the difference between _

- e) Name the different types of solvents used for non-aqueous titration.
- f) What is self indicator? Give examples.

Page 1

	g) h)	What are ligands? Classify them with example. What are buffer? Give at least two characteristics of buffer.		
	i) ⁷	Why acetic anhydride is used for preparation of 0.1N perchloric acid?		2
	j)	Calculate the change in state for potassium dichromate. Name the indicator used for dichromate titrations.		
		Part-B (Answer any four questions)		
Q.3	a)	What are advantages of non aq. Titration?	3	
	b)	Write a note preparation and standardization of 0.1N TBAH. Add a note on assay of	7+5	
	257	Metronidazole? 257 257 257 257		2
Q.4	a)	Define neutralization curve? Mention its significance.	4	
	b)	Explain the neutralization curve of a strong acid when titrated against strong base.	8	
	c)	Write about assay of amino acids.	3	
Q.5.	a)	Write the principle behind Mohr's method of titration.	5	
	b)	Explain procedure behind estimation of chlorides by Vohlard's method.	4+6	2
Q.6	a)	Define indicators? Describe the different theory of indicator.	2+8	
	b)	Write in brief about iodine titration.	5	
Q.7	a) ₇	Describe different types of EDTA titration? Explain the role of EDTA as a titrant. ₂₅₇	5+4	2
	b)	How calcium can be estimated by complexometric titration?	6	
Q.8	a)	Classify errors in pharmaceutical analysis.	6	
	b)	Write the steps for minimization of error in pharmacy?	9	
Q. 9	257	Write notes on:-(Any three) 257 257 257 257	5x3	2
	a)	Masking and demasking agents		
	b)	Nernst equation		
	c)	0.1N Potassium permaganate		
	d)	Henderson hasselbach equation.		
	e)	Common ion effect 257 257 257 257 257 257		2

Total		HARM
257	257 257 257 257 257 257 257 257 257 257	5PH202
257	2 nd Semester Regular / Back Examination 2017 HAP – II BRANCH: Pharmacy Time: 3 Hours Max Marks: 100 Q. CODE: Z334 Answer Section 'A' which is compulsory and any Four from Section 'B'. The figures in the right hand margin indicate marks.	
	Section- A (Answer all the questions)	
Q1	Answer the following questions:	(2x10)
25	The cerebral hemispheres are connected internally by a broad band of white matter known as the	
k	Hydrogen ions secreted in to gastric juice are derived from	
	The kidneys are retroperitoneal because they are to the peritoneum	
	hormone is responsible for increasing blood sugar in body	
	cell secretes testosterone	
f 25 (· · · · · · · · · · · · · · · · · · ·	
	The crossing of axons in the optic(II) nerve is	
i	· · · · · · · · · · · · · · · · · · ·	
j		
Q2	Answer the following questions:	(2x10)
	What is the composition of Gastric juice 257 257 257	
	What are the ventricles found in human bodyDifference between Mydrasis and Miotic	
	Define vital capacity	
L	Difference between Polyurea and Dysurea	
	,	
•	Write down the different types of Taste buds	
1	Write down the different types of Taste buds What is the role of Thyroxine in body What is the functions of Cranial nerves 257 257	

Section B (Answer any four questions)

Q3		Describe detail about the physiology of Urine formation. Write down the structure and functions of kidney.	(10) (5)	2
Q4	a)	What is respiration? Write down the anatomy of lungs and the mechanism of	(10)	
	b)	respiration. How respiration is regulated in body?	(5)	
Q5	25 a)	Write down the gross anatomy of GIT and mention the various GI secretions from	(10)	2
	b)	them. Write down the summary of digestive enzymes on food during the process of digestion.	(5)	
Q6		Describe detail about spermatogenesis in male and its hormonal control with special reference to testosterone and dihydrotestosterone. Physiology of menstrual cycle, 257 257 257	(10) (5)	
Q7	a) b)	Write down the anatomy and physiology of Pituitary gland. Write a short note on adrenal gland.	(10) (5)	
Q8	•	Describe Neurohumoral transmission in CNS. Physiology of reflex action.	(10) (5)	
Q9	²⁵ a) b)	Draw a net labeled diagram of human eye and describe the anatomy of eye ball. ²⁵⁷ Physiology of vision.	(10) (5)	2

Registration No:						ì

Total Number of Pages: 02

B.PHARM 15PH203

2nd Semester Regular / Back Examination 2016-17 PHARMACOGNOSY- I BRANCH:

Time: 3 Hours
Max Marks: 100
Q.CODE: Z587

Answer Part-A which is compulsory and any four from Part-B.

The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)

Q157 Answer the following questions: multiple type or dash fill up type (2×10) Tannins are nitrogenous substances (True/False) Family of Podophyllum (Berberidaceae/Burcerace) Percentage of organic matter in Poor soil (Less than 0.5%/More than 0.5%) C) Family of Honey (Bovidae/Apidae) d) Family of Castor oil (Flacourtriaceae/Euphorbiaceae) e) Magnesium is a secondary nutrient. (True/False) Family of Benzoin. (Rubiaceae/Styraceae) g) Capsicum is an Oleo-gum resin. (True/False) i) Stomata are present in roots. (True/False) Family of Balsam of Tolu (Liguminosae/Moraceae) Q2 Answer the following questions: Short answer type (2×10) **a)** What is Soil fertility? Define Pest. Define Vein termination number. **d)** Write two functions of Auxin. Write the chemical constituents of Guar gum. What is Hybridization? Write the biological source of Kokum butter. **h)** Write the uses of Pectin. i) Write the biological source of Ginger. What is Vegetative Propagation?

Part - B (Answer any four questions)

Q3 257	a)	Write details about the history, development and scope of Pharmacognosy.	(10)
	b)	Classify crude drugs.	(5)
Q4	a)	Describe about the different types of adulterants with examples in details.	(10)
	b)	Differentiate organized and unorganized drug.	(5)
Q5 ²⁵⁷	a)	Describe the detail and systematic Pharmacognostic study of Isabgol.	(10)
	b)	Write the Biological source, Chemical constituents and Uses of Myrrh.	(5)
Q6	a)	Write the Biological source, Chemical constituents and Uses of Jalap and	(10)
		Gambir.	
257	b)	Write notes on Goldbeater's Skin test. 257 257 257	(5)
Q7	a)	Write details about Secondary metabolites of plant origin with their properties.	(10)
	b)	Write the Biological source, Chemical constituents and Uses of Bees wax	(5)
Q8	a)	Describe any two methods of Pest control management.	(10)
257	b)	Write a note on Morphological evaluation of crude drugs. 257 257	(5)
Q9	a)	Write the applications of Gibberellin and Cytokinin.	(10)

Registra	ation no:		
3.0			
Total Nu	umber of Pages: 2 (Two) 257 257 257	D DUADM	257
Totarivi	umber of Pages: 2 (Two) 257 257 257	<u>B. PHARM</u> 15PH204	201
	and a second as a second as		
	2 nd Semester Regular / Back Examination 2016-17		
	ORGANIC CHEMISTRY- I		
	Time: 3 Hours		
	Max Marks: 100		
257	²⁵⁷	257	257
Answ	ver Section 'A' which is compulsory and any Four from Se	ection 'B'.	
	The figures in the right hand margin indicate marks.		
0.4	Section A	(0.40)	
Q1	Answer the following questions: Which of the following hydrocarbons has the shortest C-C bond length?	(2x10)	
aj	1) CH ₂ =CH ₂ 2) CH ₃ CH ₃ 3) C ₂ H ₄ 4) Benzene		
²⁵ 6)	What is the hybridization of the C-atom in ethane?	257	257
D)	1) Pure p 2) sp 3) sp ³ 4) sp ²		
c)	, , , , , , , , , , , , , , , , , , , ,		
•	1) AlCl ₃ (2) H3O ⁺ (3) BF ₃ (4) CN ⁻		
d)	What is the IUPAC name of the following molecule? HCOOOCH		
,	1) Formic Anhydride . 2) Ehtanoic Anhydride		
	3) Methanoic Anhydride 4) None of Above		
25 e)	The Glacial Acetic acid contain Acetic Acid 257 257	257	257
	1) 90% 2) 87% 3) 99.5% 4) 96.5%		
f)	The process of converting alkyl halides into alcohols involves	_?	
	1) addition reaction 2) substitution reaction		
٨	3) dehydrohalogenation reaction 4) rearrangement reaction		
g)	Which chemical test to distinguish between the following pairs of compound Methylamine and dimethylamine.	S.	
257	1) lucas test: 2) Hinsberg Test. 3) Dichromate Test. 4) None of the above	257	257
	CH3CONH ₂ can be converted into CH3NH ₂ by .?		
,	1) Oxidation. 2) Ozonolysis.3) Homolysis 4) Hofmann's Degradation		
i)	What product produce through hemolytic fission		
-,	1) Carbonium Ions.2) Carbanions 3) Free Radicals.4) None of the above		
j)	Which of the following reagents can be used to convert CH ₃ CHO to CH ₃ CON	NH₄?	
•,	1) Amonical solution of Silver Oxide 2) Pd/BaSO ₄	•	
257	3) Pyridinium chlorochromate. 4) Liq.NH ₃ /Ethanol	257	257
	•		
Q2	Answer the following questions:	(2x10)	
a)	What is Azeotropic Mixture?		
b)	Write the structure of CFC?		
c)	Define London Forces?		
d)	What is Iodoform Reaction? Why carbon is tetravalent? 257 257 257	257	257
²⁵ e)	why carbon is terravaient:		-4
f)	What is Rosenmund Reduction?		

- g) Why alpha hydrogen atoms of aldehyde are acidic?
- h) What is the difference between Gem-Vic Dihalide?
- i) Why Primary alkyl amine is more Basic than Ammonia?
- i) Write the two Structures having active methylene group?

Section B (Answer any four)

a) Write five general methods of preparations of alkenes and explain their Chemical (10)properties. **b)** Discuss Bayer's strain theory with suitable examples. (5) (10)a) Discuss Inductive and Mesomeric effect with suitable examples. (5) **b)** Define and classify different types of hydrogen bond. (10)**Q5** a) Discuss the mechanism of SN_1 and SN_2 reaction with suitable example. **b)** Write notes on Bohr's atomic Structure. (5) **Q6** a) Write synthetic applications of Diethyl Malonoate. (10)**b)** Explain Aldol Condensation & Cannizaro reaction? (5) **Q7** 2a) Outline the general methods of preparation & Chemical Reaction of alcohol. (10)**b)** How to differentiate primary, secondary and tertiary alcohols. (5) Q8 a) What is Diels alder's reaction, Wurtz reaction and Free-radical Substitution (10)reaction? Explain Markovnikove rule with suitable examples. **b)** Outline the general methods of preparation of Ether. (5) (10)**Q9** a) Write a note on: Quantum number. **b)** Explain the conformational analysis of cyclohexane. (5)

Registra	ation No:							
Total No	umber of Paલ્	ges: 02	257	257		257	257	B.PHARM 15PH205
257	257 Answer Pa	BUSINES	S COM BRA Tin ²⁵⁷ Ma Q.0 ch is co	-	TION IN armacy ours : 100 '925 ry and a	N ENGLI	SH 257	-В.
Q1 a) b) c) c)	known as	following idea or b of people is che high at most cl	questions elief which about por	h is comreople belonger that alification et the job o	ype or das nonly helo onging to n writinga s, skills, descriptio	h fill up typed by the a difference letter. achieven.	257	(2 x 10)
۵۱	Brief and w	ritten note	s address	sed to ind	ividuals o	r aroune	of the same	

Q2 Answer the following questions: Short answer type

along with comments, suggestions, recommendations etc.

organisation as routine correspondence are known as

The meanings of unfamiliar words are guessed by using

A set of skills which is done with human emotions is referred to as

The free flow and exchange of information, vertically as well as horizontally, in an organisation refers to ____ communication.

is a group of people working closely together to achieve a

report analyses as well as presents factual information,

a) What is Ethno-centricity?

b) Distinguish between Cc and Bcc.

c) What is Grapevine?

common goal.

g)

- **d)** Write the Bias freelanguage of- i) man-to-man defence, ii) middle man.
- e) Write any two examples of Formal-external channels of communication.
- **f)** What is Cohesion?
- **g)** What do you mean by Scanning in reading process?
- h) What is Lateral communication?
- i) What are the attributes of Leadership? 257
- j) What do you mean by Delegation?

 (2×10)

Part - B (Answer any four questions)

Imagine that you are the Regional Marketing Manager of a (10)Q3 pharmaceutical company, Alchem India Ltd, Regional Office (East) situated in Kolkata. Draft a memo to your sales people to join an Annual review and planning meeting. b) Distinguish between Electronic and Paper-based communication. (5) (10)Q4 a) You have invented a new kind of medicinal molecule, extracted from herb, for the treatment of any tumour. Trials have been successfully and you want to sell your patent that you have had recently, to an established pharmaceutical company. Write a letter to the CEO of the company. Solicited proposals are sometimes called Expressions of Interest. (5) Discuss. "Good leaders are made, not born." Justify your answer. Q5 (10)b) What is Progression? (5) Differentiate between a Speechand a Presentation. (10)Q6 "Writing is Context-independent". Justify. (5) a) A good presentation, which is inevitable to your profession, must have (10)a clear and realistic purpose. Justify. Nowadays, Informal-internal channel of communication is developed (5) bybusiness organisations. Discuss with example. Q8 Read the information provided below and Prepare a CV as per the (10)format you have already been taught. You are a candidate who is applying for the position of Research Fellow to a pharmaceutical Company for R & D Division as fresher. You are 24 years old. You are presently residing in House No. 123 at A.N. Guha Lane, Church Chowk, Berhampur. You have got your Post Graduate and Bachelor Degree in Pharmacy from GCP College of Pharmacy, Rourkela which is under BPUT, Odisha in the year of 2016 and 2014 respectively; after passed the +2 Science Examination from Khalikote College, Khalikote in 2010. You are enthusiastic, hardworking, imaginative, innovative etc. You have also knowledge on chemical molecule extraction from herbs and on computer operation. You are more interested in reading scientific books, travelling. **b)** What is Idea-mapping? (5) What is Decision-making? What are the different types of Decision-Q9 (10)making processes required for team functioning? **b)** What is Coherence? Explain with example. (5)

Registration no:					

Total Number of Pages:02

B.PHARM 15PH206

2nd Semester Regular / Back Examination 2016-17 HOSPITAL AND COMMUNITY PHARMACY

BRANCH: B.Pharmacy Time: 3 Hours Max Marks: 100 Q.CODE: Z713

Answer Section 'A' which is compulsory and any Four from Section 'B'.

The figures in the right hand margin indicate marks.

SECTION-A

Q1	a)	Answer the following questions: Full form of HEPA is	(2 x 10)	
257	b)	method is used for distribution of Charged floor		257
	۵۱	stock drugs.		
	c) d)	is used for Moist heat sterilization. In inventory control EOQ stands for		
	e)	Objectives of PTC are and		
	f)	Terminal method of family planning are and		
257	g)	Large volume paranterals contains preservatives. True / False		257
201	n) i\	Large Hospital nave numbers of beds.		201
	j)	Large Hospital have		
Q2		Master formula card.	(2 x 10)	
~_	-	What do you mean by buffer stock?	(2 X 10)	
		Mention three materials whish are sterilized by Autoclave.		
257	-	Define OTC drugs. 257 257 257		257
	e) f)	Mention the advantages of floor stock system Composition of Universal antidote.		
	•	. Classify hospitals according to ownership.		
		Composition of Infection control committee.		
	i)	What are surgical cotton?		
	j)	Mention the temperature ranges for different storage conditions.		
257		257 257 257 257 257		257
		Section: B (answer any four questions)		
Q3	a)	Define Hospital. Classify them and note down the functions of	(10)	
	h)	Hospitals. Write about Infection control committee.	(5)	
	•		(0)	
Q4	a)	Define Inventory control and describe the techniques of Inventory	(10)	257
	b١	control. Write in brief about retail drug store.	(5)	
	υ ,	With in bilet about retail drug store.	(5)	
Q5	-	Describe the Temporary methods of family planning. Write notes on Purchase procedure of drugs.	(10) (5)	Page 1
	ν)	White hotes on i dionase procedure of drugs.	(3)	Pé

257	Q7 a b c c c c c c c c c c c c c c c c c c	A) Mention the difference describe floor store. Write about the control of the co	ck system. emergency tre n. Describe tenples rgical cotton a tely on Pharmathe functions of	eatment of poison the different meand adhesive ta acy and Therapof Hospital phartal formulary sy	pes peutic committed macy.	257 ization (e. 257 (10) 257 (5) 10) (5) 10) 257 (5) 10) (5)
257	257	257	257	257	257	257	257
257	257	257	257	257	257	257	257
257	257	257	257	257	257	257	257
257	257	257	257	257	257	257	257
257	257	257	257	257	257	257	257
							2

Desistration no.							
Registration no:							
Total Number of Pag	ies: 02	257		257		257	,

2nd Semester Back Examination 2016-17 HAP - II

BRANCH: Pharmacy Time: 3 Hours Max Marks: 70 Q.CODE: Z335

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

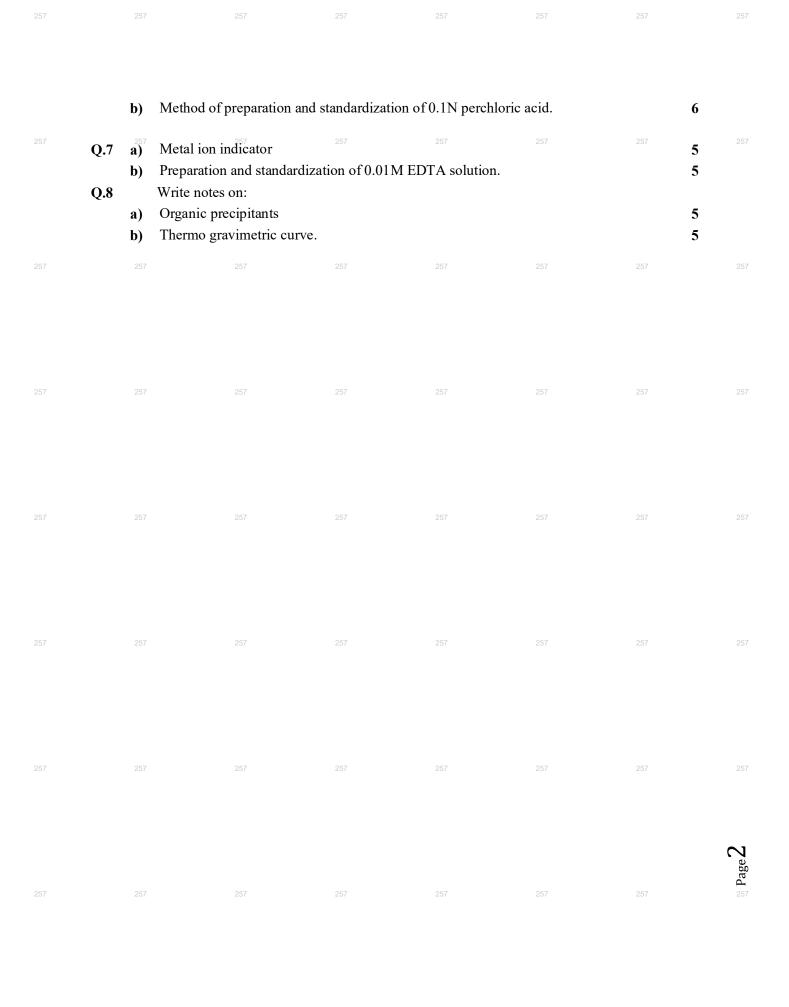
Q1 ₂₅₇ a	Answer the following questions: What is peptic ulcer?	257	257	257	(2 x 10)	25	
k) Define diabetes mellitus.						
C	Nephron.						
C) _{Ultra-filtration} .						
257) Gastrin secretion 257	257	257	257		25	
1	Write about human Uterus.						
ç) Define action potential?						
ŀ	Name the hormones released from adre	enal cortex.					
257	Define diabetes mellitus. 257 257 257 257						
j	Difference between myelinatednon-my	elinatednerve	fibres.				
Q2	Describe the human digestive system venote on digestion of food in small intesting.		d labeled diagram.	Write a	(5+5)		
Q3 :7	Describe the anatomy & physiology of	liver⊼Add a ı	note on its function	1. 257	(6+4)	25	
Q4	What is ANS? Classify ANS on the bas describe the anatomical disposition of p				(2+3+5)		
Q5	Write in detail about the physiology of	urine formati	on. 257	257	(10)	25	

B.Pharm

Q6			Draw and describe the anatomical structure of human eye. Write a brief note on commonest types of refractory errors of the eye. (7+3)								
7	Q7 ²⁵⁷		Write short note on Physiology of Respir Physiology of hearing	ration	Any (wo)	257	257	(5X2)	257		
7	Q8 ₂₅₇	c)	What are the various Write short answer Spermatogenesis Write a note on reflex	stages of menstruon any TWO:	nal cycle?	257	257	(5 x 2)	257		
7	257	c)	Write a note on voice	e box.	257	257	257		257		
7	257		257	257	257	257	257		257		
7	257		257	257	257	257	257		257		
7	257		257	257	257	257	257		257		
7	257		257	257	257	257	257		257		

Registration no:

Total Number of Pages: 2 B.PHARM PH.2.5 2nd Semester Back Examination 2016-17 PHARMACEUTICAL ANALYSIS - I (Old) **BRANCH: Pharmacy** Time: 3 Hours Max marks:270 **QUESTION CODE: Z460** Answer Q. No. 1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks. **Q.1** Answer the following: (2×10) Write the significance of neutralization curve? a) Name four indicators used in complexometric titration. **b**) What is the difference between equivalence point and end point? c) Write down the conditions for volumetric analysis. d) Define Lewis acid and give two examples from it. e) Define and different between solubility product and precipitation. f) g) Define mixed indicator and give one example. Define and differentiate between acidimetric and alkalimetric titrations. h) Define and differentiate between masking and damasking. i) How you will prepare 0.1N H₃PO₄? j) **Q.2** Give a detail note on the different types of errors involved in pharmaceutical 10 analysis. What are the different steps of minimization of errors? Q.3 Write notes on: 5 x 2 Ionic product of water. a) Hydrolysis of salts. b) **Q.4** Derive Henderson-Hasselbach equation. 6 Write the procedure of Preparation and Standardization of 0.1N NaOH. b) Explain the principle of Mohr's method of titration with derivation. Q.5 5 **a**) Give a note on preparation and standardization of 0.1N AgNO₃. 5 b) 0.6 Classify the different types of solvent used in non-aqueous titrations.



Registration no:											
Tota	Total Number of Pages: 02 257 257 257 257 257 B.Pharm PH.2.7										
257	2 nd Semester Back Examination 2016-17 PHARMACOGNOSY - II BRANCH: Pharmacy Time: 3 Hours 257 Max Marks: 70 Q.CODE: Z586										
A	nsw	er Question No.1 which is cor The figures in the right ha	-	•		e rest.					
Q1 ₂₅₇	a)	Answer the following questions: Write the biological source of Asafoetida. Define Pharmaceutical aid.	257	257	257	(2 x 10)	257				
	b) c)	What is Tannin?									
	d)	Write the biological source of Caraway.									
	e)	Write the chemical constituents of Podophy	/llum.								
257	f)	What is Enfleurage? 257	257	257	257		257				
	g)	Write two examples Oleo gum resin.									
	h)	Write the family of Cinnamon.									
	i)	Write the chemical constituents of Musk.									
	j)	What is Photosensitizing agents?									
257 Q2		Define Plant allergen. Write the details suitable examples.	classification	of Plant allergens	s with	(2+8)	257				
Q3		Write the Biological source, Chemical co	onstituents and	Uses of following	5						
		drugs									
257	a)	Myrrh 257 257	257	257	257	(5)	257				
	b)	Turmeric				(5)					

Write the details classification of Tannins with suitable examples.

b)

Gambir.

Write the Biological source, Chemical constituents, Chemical test and Uses of

(5)

(5)

	Q5		Define Antioxidant. Describe the role of Plant antioxidants with it's specific (2+8) classification and suitable examples.							
7	Q 6 ⁵⁷	a) b)		ne Biological sou	rce, Chemical con	nstituents and Use	es of following	257	(5) (5)	257
7	Q7 57		Describ	e the detail and s	ystematic Pharma	acognostic study	of Clove.	257	(10)	257
	Q8	a) b)	Goldbea Anato	short answer o ater's Skin test	n any TWO:				(5 x 2)	
7	257	c) d)	Silk Fennel	257	257	257	257	257		257
7	257			257	257	257	257	257		257
7	257			257	257	257	257	257		257
7	257			257	257	257	257	257		257
7	257			257	257	257	257	257		257

Reg	istra	ation no: 257 257 257 257 257	257							
Tota	Total Number of Pages: 01 B.PHARM PH.2.9									
257		2 nd Semester Back Examination 2016-17 Hospital Pharmacy BRANCH: B.Pharmacy Time: 3 Hours Max Marks: 70 Q.CODE: Z714 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.	251							
Q1 7	a) b) c) d) e) f) y) i)	Answer the following questions: 257 257 257 (Mention the number of pharmacist required as per bed strength of a hospital. Note the objectives of PTC. What is EOQ? Define Hospital Formulary system. What is satellite Pharmacy? Write about various types of storage conditions. What are large volume parenteral? Mention the advantages of Unit dose dispensing What do you mean by ambulatory patient? Mention the abilities required of a hospital pharmacist.	2 x 10) ₂₅₇							
Q2 257	a) b)	Define Drug Information centre. Describe different sources of information. Define and classify Hospital. 257 257 257	(5) (5) ²⁵⁷							
Q3	a) b)	Define and describe the functions of Hospital pharmacy. Describe the contents of Formulary.	(5) (5)							
Q4 257 Q5	a)	Mention different methods of drug distribution to inpatients. Describe the Floor stock system of drug distribution. 257 257 257 257 257 257	(10) 257 (5)							
40	b)	Write notes on Unit dose dispensing system of drug distribution.	(5)							
Q6	a) b)	Mention the different methods of sterilizations with suitable example of materials sterilized by using them. Describe the method of moist heat sterilization.	(5) (5)							
Q7	a) b)	Write notes on Inventory control. Purchase procedure of drugs.	(5) (5)							
Q8	a)	Write short notes on any two: Pyrogen test	(5 x 2)							

- b) Functions of Central sterile supply department
 c) Responsibilities of Hospital Pharmacist
 d) Surures

- e) Patient medication profile

|--|

Total Number of Pages: 02

B.Pharm PH.2.10

2nd Semester Back Examination 2016-17 PHARM CHEMISTRY - II (ORG.CHEM-I)

BRANCH: Pharmacy Time: 3 Hours Max Marks: 70 Q.CODE: Z865

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

d e f	 What is the Sachse-Mohr concept of strainless rings? What do you mean by free radical substitution reaction? Explain bond energy, bond length and bond angle with suitable examples. Write two different processes for preparation of amines. Explain homolytic and heterolytic bond fission with suitable examples. Define Markovnikov rule with suitable examples. Write two different processes for preparation of alkanes. Differentiate between Inductive & Electromeric effect. 	(2 x 10)
Q2 a) Discuss various postulates of Bohr's atomic structure and write its limitations.	(2)
257 b) Write short notes on chemical bonding. 257 257 257	(8)
Q3 a) Briefly explain Aldol condensation reaction & Cannizzaro reaction.	(5)
b) Clemmensen reduction and α , β -unsaturated carbonyl compounds.	(5)
Q4 ²⁵⁷	Explain the method of preparation and Nucleophilic substitution reaction and elimination reactions of alcohol.	(10)
Q5	What is hybridization? Discuss briefly SP ³ , SP ² and SP hybridization in carbon	(10)
257	with suitable examples. 257 257 257 257 257 257 257	

	Q6	a) b)	Conformational analy					(5) (5)	
257	257 Q7		Briefly explain on a	257	ving	257	257	(5 x 2)	257
		a) b)	Nucleophilic substitute Diels alder reaction Elimination reaction			actions		,	
257	Q8 ₇		Write short answe	er on∘any TWO:	257	257	257	(5 x 2)	257
		b) c)	Chemical Bonding Free Radicals Basicity of Amines Nucleophilic Substitu	ıtion reaction					
257	257		257	257	257	257	257		257
257	257		257	257	257	257	257		257
257	257		257	257	257	257	257		257
257	257		257	257	257	257	257		257
257	257		257	257	257	257	257		257