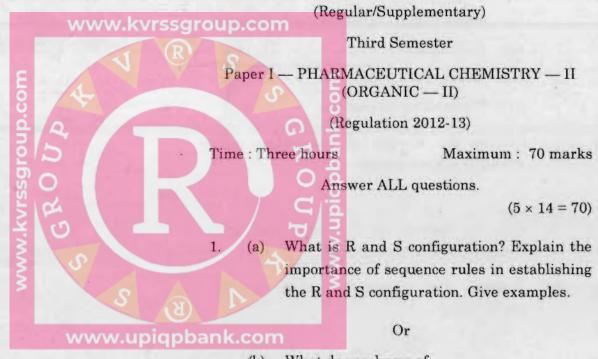
## (BPH30112)

#### B.Pharmacy DEGREE EXAMINATION, FEBRUARY 2017.



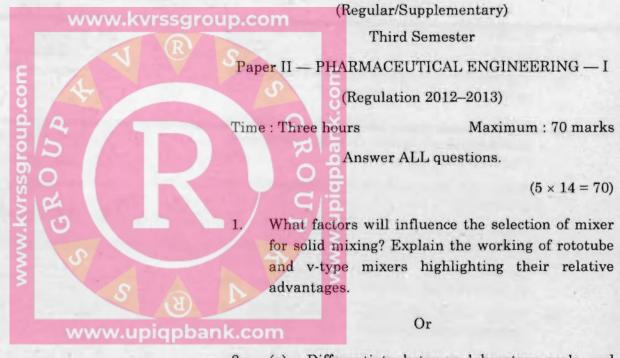
- What do you know of (b)
  - (i) Optical isomerism
  - (ii) Geometric isomerism.

Write short notes on: What are amines? How are they prepared? 5. Discuss the basicity of amines. (a) Oppenauer oxidation (b) Mannich reaction. Or Or Write the mechanisms of LiAlH<sub>4</sub> (c) (i) Friedel-Craft's alkylation and acylation Lead tetraacetate. (d) Kolbe reaction (ii) Sandmeyer's reaction (iii) Reimer-Tieman reaction. Discuss the method of preparation and 3. (a) reactions of isoquinoline. Or Give an account of the properties and reactions of furan and pyrrole. the important reactions of 4. (a) Discuss naphthalene. Or

(b) How is phenanthrene and anthracene prepared? Write the important reactions they undergo.

### (BPH30312)

## B.Pharmacy DEGREE EXAMINATION, FEBRUARY 2017.



- 2. (a) Differentiate between laboratory scale and pilot scale process. (4)
  - (b) Give the classification of mixing equipment used for ointments and explain the working of triple roller mill. (10)

3.	(a)	What is Bernoulli's equation? How it is used to measure the horsepower of a pump lifting liquid to an overhead tank? (8)		8.	(a)	Write about the factors influencing the wet bulb temperature. (6)
	(b)	Explain the working of bucket elevator. (6)			(b)	Explain the working of industrial cooling towers. (8)
		Or		9.	(a)	Write about the factors influencing the size reduction. (6)
4.	(a)	Explain the working of globe valve and gate valve. (7)	rssgro R	oup.	(b)	Explain the working of size reduction equipment for fibrous material justifying
	(b)	Explain the working of a self priming pump and mention its advantages. (7)	×.		3	your answer. (8)
5.	(a)	What are the causes for chemical hazards in pharmaceutical industry? Write about their preventive measures. (8)		10.		Or short notes on the following:
	(b)	Define corrosion and explain methods for its prevention. (6)	K		(a) (b)	Bag filter (4) Trommels (5)
		Or \sqrt{2} O			(c)	Cyclone separator. (5)
6.	(a)	Enumerate the types of steels used in pharmaceutical industry. (8)			T	× × × × × × × × × × × × × × × × × × ×
	(b)	Write about the use of non-metals in pharmaceutical industry. (6)	(B) adqpia	nk.	com	
7.	(a)	Define humidity and humid heat. Write about humidity chart and its applications. (7)				
	(b)	Explain the refrigeration cycle. (7)				
		Or				
		2 (BPH30312)				3 (BPH30312)

## (BPH30412)

# B. Pharmacy DEGREE EXAMINATION, FEBRUARY 2017.

Third Semester www.kvrssgroup.com Regular/Supplementary Paper III — PHARMACEUTICAL MICROBIOLOGY (Regulation 2012-13) Time: Three hours Maximum: 70 marks Answer ALL questions. Write short notes on conjugation. (4) (b) Classify bacteria with examples. (10)Or Write short notes on Transduction. (c) (4) (d) Discuss about classification of Fungi with examples. (10)(a) Write short notes on Gram staining. (4)

(b)

Or

microbial cultures.

Discuss about methods for isolation of

(10)

	(c)	Write briefly about microbiology of wat	er. (4)	(b) V	Write about the etiology, symptoms, mode of transmission and prevention of the following.		
	(d)	Discuss about the factors affecting ba	cterial	t			
		growth.	(10)	(	i) Malaria		
3.	(a)	Write short notes on disinfectants.	(4)	(	ii) Leprosy		
	(b)	Discuss about radiation sterilisation.	(10)	(	iii) Amoebiasis.		
		Or	w.kvrssgrou	p.com	-		
	(c)	Write briefly bacterial filters.	(4) R	5			
	(d)	Discuss about dry heat sterilisation.	(10)	5	E S		
4.	(a)	Write short notes on vaccines.	(4)	C	Š		
	(b)	Discuss about immune response.	(10)		<u>م</u> ارة		
		Or SS O	K		O 를		
	(c)	Write briefly about monoclonal antibod	lies. (4)		7/9		
	(d)	Write about ELISA.	(10)		\$ 1		
5.	(a)	Write about the etiology, symptoms, m transmission and prevention of the foll		A TY	NA NA		
		(i) Syphilis	w.upiqpbanl	c.com			
		(ii) Hepatitis	Address of the Landson State o				
		(iii) Polio.					
		0,5					

#### (BPH30612) Write about the Composition of Blood. (4) (b) Describe the structure and functions of Heart. (10)B.Pharmacy DEGREE EXAMINATION, FEBRUARY 2017. Or (Regular/Supplementary) Write short notes on Arteries and Veins. (4) (c) Third Semester www.kvrssgroup.cdm Discuss about Nervous regulation of blood pressure. (10)Paper IV - ANATOMY AND PHYSIOLOGY (Regulation 2012-13) Write about the Composition and functions 4. (a) of Bile. (4)Maximum: 70 marks Time: Three hours Discuss about the digestion of Proteins in Answer ALL questions. GIT. (10)Write about the types and functions of (a) 1. Or (4) Joints. Write short notes on respiratory muscles. (4) (c) Discuss about the passive transport of (b) materials across the cell membrane. (10)Write about the transport of Oxygen and (d) Carbon dioxide. Or (10)Write short notes on Muscular tissue. (4) (c) Write short notes on Testes. 5. (a) (4) Discuss about Membrane potential (d) and Discuss about the structure and functions of (b) (10)Action potential. Anterior Pituitary gland. (10)Explain about the functions of Brainstem. (4) 2. (a) Or ıpbank.com Describe the structure and functions of (b) Draw a neat labeled diagram of Nephron. (4) Sympathetic nervous system. (10)Discuss in detail about the functions of (d) Or Kidneys. (10)Write short notes on Synapse. (4) (c) Discuss about the Physiology of Vision. (10)(d)