

www.FirstRanker.com

www.FirstRanker.com

KNT/KW/16/6552

5×3=15

B. Pharm. Semester-III (C.B.S.) Examination

PHARMACEUTICS-III (Unit Operations)

Paper-1

Tin	ime : Three Hours]	[Full Marks: 80
N.E	i.B. :— (1) Question No. 1 is compulsory.	•
	Solve any FOUR questions from the remaining.	
	(3) Draw neat labeled diagram wherever necessary.	
	(4) Discuss the reaction, mechanism wherever necessary.	
	(5) Use of electronic calculator is permitted.	
	(6) Assume suitable data wherever necessary.	
1.	. Solve any FIVE of the following:	
	(a) Write the mechanisms of Filtration.	
	(b) Explain the factors influencing Mixing.	
	(c) What is Reynolds number? Describe its importance.	
	(d) Discuss the factors related to nature of raw materials which	h affects selection of mill for size
	reduction.	
	(e) Explain the various grades of powder and sieve number as	-
	(f) Explain mechanisms of mixing in solids. Classify equipment b	based on flow properties of powders.
	(g) Explain the term centrifugal effect. Write the criteria in the	7.
		4×5=20
2.		
_	fluid energy mill.	15
3.		-
	detail.	15
4.		
_	press and meta filter.	15
5.	1 1 1 ,	
6.	 (a) What is votex formation and how it can be prevented in liquifor liquids and explain propellors. 	d mixing ? Classify mixing devices
	(b) Discuss principle, construction and working of double core	and ribbon blender. 15
7.	Write short notes (any THREE):	
	(a) Centrifugal pumps.	
	(b) Mass transfer in turbulent and laminary flow.	
	(c) Bernoulli's theorem.	
	(d) Tubular bowl centrifuge.	



FirstRanker.com

NWN-9222

(e) Cyclone separator.