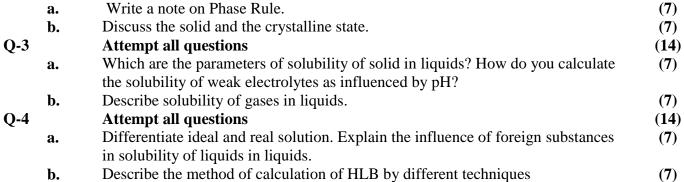
	Enrollm	ent No: _				_			
	C.U.SHAH UNIVERSITY								
	<b>Summer Examination-2017</b>								
	Dummer Dammation-2017								
	Subject Name: Physical Pharmacy I								
	Subject Code: 4PS03PHP1			Branch: B.Pharm					
	Semeste	r: 3	Date: 23/03/2017	Time: 10:30 To 01:30	Marks: 70				
	Instruction	ons:							
	(1)	Use of Pr	ogrammable calculator & a	ny other electronic instrument is p	rohibited.				
	(2) Instructions written on main answer book are strictly to be obeyed.								
	(3) Draw neat diagrams and figures (if necessary) at right places.								
	(4)	Assume s	suitable data if needed.			_			
Q-1			the following terms			<b>(14)</b>			
	a)	Ideal ga							
	<b>b</b> )		line solid hous solid						
	c) d)	Liquid							
	e)	-	ar solvent						
	<b>f</b> )	Osmosi							
	<b>g</b> )		e free energy						
	<b>h</b> )		ing Coefficient						
	i)	Wetting	g Agent						
	<b>j</b> )	Associa	ation Colloids						
	k)		an motion						
	l) .		n Membrane equilibrium						
	m)		nversion						
A 44 a	n)		ated Particles						
Atte	mpt any 1	tour que	stions from Q-2 to Q-8						
Q-2		Attemp	ot all questions			(14)			
-	a.		a note on Phase Rule.			<b>(7)</b>			
	b.		s the solid and the crystalline	e state.		<b>(7</b> )			
Q-3		Attemp	ot all questions			(14)			





Q-5		Attempt all questions	(14)
	a.	Differentiate various types of colloidal dispersion system and give the application	<b>(7</b> )
		of colloids in pharmacy	
	b.	Explain kinetic properties of Colloids	<b>(7)</b>
<b>Q-6</b>		Attempt all questions	(14)
	a.	Discuss spreading coefficient. Derive its equation	<b>(7)</b>
	b.	What is dissolution? Discuss its significance in drug therapy.	<b>(7)</b>
Q-7		Attempt all questions	(14)
_	a.	Explain different identification test for types of emulsion	<b>(7)</b>
	b.	Write a note on evaluation of suspension	<b>(7)</b>
Q-8		Attempt all questions	(14)
_	a.	Describe the method for studying <i>in-vitro</i> drug diffusion.	<b>(7)</b>
	b.	Describe <i>in-vitro</i> dissolution test apparatus as per Indian Pharmacopoeia	(7)

