V. P. & R. P. T. P. Science College Vallabh Vidyanagar - 388 120

Firs	t In	ternal Test	S. Y. B. Sc.	(Sem-4)	PHYSICS (US04CPF	IY02)
Wed	lnes	sday: 14-03-2	018		Time: 3.00pm to 4.3	0 pm
Q-1	Mul	ltiple Choice Quest	tion			03
I.	The	unit cell having onl	y one lattice point			
	(a)	Primitive cell		(c)	Non-primitive cell	
	(b)	APF		(d)	Coordination number	. Science
II.	Whi	ich is secondary bor	nd		1/4/	- Sce
	(a)	ionic		(c)	metallic ALIR	RARY
	(b)	hydrogen		(d)	covalent	MARY
III.		is a natural polyn	ner		AV	Vagat *
	(a)	wood		(c)	Polyester	vage
	(b)	Plastic		(d)	PVC	
Q-2	Short question (attempt any two)					04
	1	What is Primitiv	ve Cell?			
	2	What is cohesiv	e energy?			
	3	What is isomeri	sm?			
Q-3		Discuss in detail how to construct primitive or Wigner-Seitz cell				
				Or		
Q-3	Explain seven crystal system with proper diagram					06
2-4	Calculate the lattice energy of ionic crystal					06
				Or		
2-4	Derive Madelung constant of ionic crystal					06
)-5	Discuss molecular structure in detail					06
				Or		
2-5	What is difference between thermoplastic and thermosetting polymers					06