V. P. & R. P. T. P Science College, B.Sc. Industrial Chemistry (5th Semester) Internal Test Separation Technique

Date: 09/10/2017 Time: 11:00 a.m. to 12: 30 p.m.

Subject code:US05CICV06 Total Marks: 25

Q.1	Select the correct option				03
1.	Separation by distillation is not possible when relative volatility is one.				
	a. Greater than	b. Less then	c. Equal	d. None of these	
11.	What is the tower diameter to packing size ratio for minimizing the channeling?				
	a. >8	b. <8	c. =8	d. None of these	
111.	Magma is the mixture of mother liquor and				
	a. Crude	b. Crystals	c. Slurry	d. None of these	
Q.2					04
1.	Limitation of McCabethile method.				
II.	Define the following terms with reference to extraction I. Raffinate II. Extract				
Ш.	Explain the mechanism of crystallization.				
Q.3	Write note on Azeotropic o	listillation.		V. Nagas	06
		OF	2		
Q.3	Write in brief on Flash distillation & draw its sketch.				06
Q.4	Q.4 Give the construction and working of continuous operated mixer-settler with neat sket				06
		OF	3		
Q.4	4 Draw the neat sketch of packed column used for gas absorption and write its construction a functioning.				06
Q.5	Explain the construction and working of Agitated crystallizer with suitable diagram.				06
		OF	2		
Q.5	Explain the construction and working of Swenson-walker crystallizer with suitable diagram.				06