V. P. & R. P. T. P. Science College

Internal Exam

B.Sc. (Fifth Semester)
Wednesday, 05th October- 2016
Subject code: US05CICH05 (Mechanical Operations)
Industrial Chemistry

Time: 11:00 am to 12:30 pm Total Marks: 25

Q-1		Answer the following MCQ'S:	(03)
	1	In early stage of filtration, the rate of filtration is(a) High(b) Low	
		(c) Medium (d) Constant	
	ii	(a) Size (c) Density	
	111		
	111	Paddle impeller is impeller. (a) Axial flow (b) Centrifugal (c) Radial flow (d) Both a & c	
Q-2		Answer any two of the following:	(04)
12-2		Allswer any two or the following.	(04)
	1	Explain constant rate filtration and constant pressure filtration.	
	garage and and and and and and and and and and	Explain Terminal settling velocity and Hindered settling.	
	111	Sketch the type of impellers	
Q-3		Write construction and working of rotary drum filters.	(06)
		OR	
Q-3		Write note on filter medium & its characteristics.	(06)
Q-4		Write short note on Hydraulic jig.	(06)
~ 4		OR	(00)
Q-4		Write short note on laboratory batch sedimentation process.	(06)
Q-5		Explain prevention of swirling and vortex formation. OR	(06)
Q-5		Write detail note on Impellers used mixing process.	(06)