

V.P and R.P.T.P Science College  
F.Y B.Sc. (Second Semester) Internal Exam  
US02CICV02  
18<sup>th</sup> March 2014, Tuesday

Time: 11:00 A.M to 12:00 Noon

Total Marks: 30

Q1. Answer the following short questions: (Any three)

1. Write down the factors affecting rate of filtration.
2. Enlist important characteristics of filter media.
3. Give the principle of sedimentation
4. Differentiate between filter aids and coagulants.
5. Write down the industrial significance of mixing.
6. What steps should be taken to prevent vortex.



[06]

Q2. Explain in detail construction and working of plate and frame filter press.

[08]

OR

Q2. Explain in detail construction and working of rotary drum filter.

[08]

Q3. (a). Explain free settling and hindered settling in detail.

(b). Explain in detail role of coagulants in sedimentation and also give its examples.

[08]

OR

Q3. Explain in detail construction and working of thickener.

[08]

Q4. Explain in detail types of impeller.

[08]

OR

Q4. Write in brief about i) liquid-liquid mixing ii) solid-liquid mixing

[08]