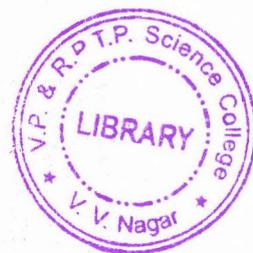


V.P & R.P.T.P Science College  
F.Y. B.Sc Industrial Chemistry Vocational,  
Semester-II, US02CICV02  
19<sup>th</sup> March, 2015  
Thursday



Time: 01:00 pm to 2:00 pm

Total Marks:25

**Q1. Answer the following multiple choice questions.**

[03]

- Which from the following is an example of filter media?  
a. Canvas                      b. Plastic                      c. Glass                      d. Both (a) and (b)
- \_\_\_\_\_ is added to increase the porosity of cake.  
a. Coagulants                      b. Polymers                      c. Gum                      d. Filter aid
- In ribbon blender solid is charged from \_\_\_\_\_  
a. Top                      b. Bottom                      c. Side ways                      d. Both (a) and (b)

**Q-2 Answer any three of the following: (Any Two)**

[04]

- Write down the characteristics of filter medium.
- Differentiate between cake filtration and deep bed filtration.
- Write down the practical aims of mixing.
- Draw a neat sketch of typically agitated vessel.

Q – 3 Write a short note on Filter Aid along with its ideal properties and methods of using it. [09]

**OR**

Q – 3 Write down construction, working and advantages of Rotary Drum Filter [09]

Q – 4 (a) Give methods of avoiding vortex in agitated vessel [04]

(b) Write a short note on mixing with gases with liquids [05]

**OR**

Q – 4 With neat sketch explain in detail about various types of impellers. [09]