

V.P. & R. P. T. P. Science College
T.Y. B.Sc. Industrial Chemistry (Vocational)
(Semester – Vth) EXAMINATION
6th October 2016, Thursday
Course No: US05CICV06
(Separation technique)

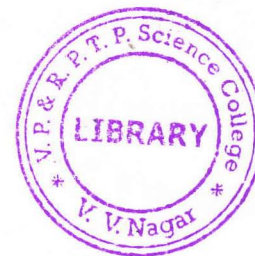
Total Marks: 25

Time: 11:00 to 12:30 pm

Q.1: Answer the given multiple choice questions.

[3]

- The boiling point of liquid increases with _____ in pressure.
(a) Increases (b) Decreases (c) Constant (d) None of these.
- Gas absorption is also term as
(a) Scrubbing (b) Drying (c) Adsorption (d) None of these.
- Magma is the mixture of mother liquor and _____
(a) Crude (b) Crystals (c) Slurry (d) All of these.



Q.2: Answer the following question (any two)

[4]

- Define the following terms
(i). Distillation. (ii). Reflux ratio.
- Differentiate between distillation and extraction.
- Give Classification of crystallizers.

Q.3: Answer the following questions:

[6]

Write in brief on Flash distillation & draw its sketch.

OR

Write note on Azeotropic distillation.

Q.4: Answer the following questions:

[6]

Draw the neat sketch of packed column used for liquid-liquid extraction and explain in brief.

OR

Write briefly on mechanically agitated vessels used for gas absorption.

Q.5: Answer the following questions:

[6]

Explain the construction and working of Agitated crystallizer with suitable diagram.

OR

Explain the construction and working of Oslo cooler or Krystal crystallizer with suitable diagram.