

V.P. & R.P.T.P. SCIENCE COLLEGE
S.Y. B. Sc. INDUSTRIAL CHEMISTRY
SEMESTER – 4, USO4CICH02

17th March, 2015

Tuesday

TIME: - 10:30 am to 12:00 Noon

MARKS:-25

Q-1 Answer the following multiple choice questions.

(03)

1. Permanent hardness in water is caused by presence of
a. Calcium chloride b. Magnesium Sulphate
c. Both a & b d. None of these
2. Bomb calorimeter is used for determining the calorific value of
a. Solid fuel b. Liquid fuel
c. Gaseous fuel d. Both a & b
3. The pressure at the inlet of a refrigerant compressor is called
a. Suction pressure b. Discharge pressure
c. Critical pressure d. Back pressure



Q-2 Write the answer of following short question. (Any two)

(04)

1. Write the Clark's method for the determination of Hardness.
2. Define the term fuel and calorific value.
3. Enlist the classification of compressors.

Q-3 Write note on Zeolite process.

(06)

OR

Q-3 Write note on Carry over.

(06)

Q-4 Explain in detail heating and cooling methods and mediums.

(06)

OR

Q-4 Write note on Bomb calorimeter.

(06)

Q-5 Explain the work done by reciprocating compressor without clearance volume. (06)

OR

Q-5 Derive an equation for volumetric efficiency of a compressor.

(06)