

M.Sc. (Industrial Chemistry) Examination

Semester-II

Paper - IC - 7: Chemical Kinetics & Material Science

Paper Code: 2923

April 2016

Time: 2.30 Hours

Maximum Marks: 70

Que.-1 What are contact masses? Explain it in detail with properties of[14]
solid catalyst.

OR

Que.-1 Write brief note on homogeneous and heterogeneous catalytic[14]
reactions.

Que.-2 With a flow sheet diagram explain manufacture, properties and[14]
industrial application of lamp black.

OR

Que.-2 With a flow sheet diagram explain manufacture, properties and[14]
industrial application of graphite.

Que.-3 Give industrial manufacture, chemical equation and industrial[14]
application of sodium chloride.

OR

Que.-3 Give industrial manufacture, chemical equation and industrial[14]
application of chlorine.

Que.-4 Explain industrial production of ceramic with flow sheet diagram.[14]

OR

Que.-4 How industrially glass was manufactured? Differentiate physical[14]
and chemical properties of glass.

Que.-5 State and explain mechanical, physical and dimensional properties[14]
and industrial application of alumina.

OR

Que.-5 State and explain mechanical, physical and dimensional properties[14]
and industrial application of steel.