



DHH-003-011403

Seat No. _____

M. Sc. (Sem. IV) (CBCS) Examination

May / June – 2015

Industrial Chemistry

IC - 403 : Chemical Technology - II

Faculty Code : 003

Subject Code : 011403

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions:** 1) All Questions are compulsory & carries 14 marks.
2) Assume suitable data wherever necessary.

Q1] Answer any seven out of the following: 14

- 1) Define: (a) Blistering of Paints (b) Blooming of Paints
- 2) Briefly explain liquid detergent manufacturing.
- 3) Explain importance of PVC in paint?
- 4) What is Spalling in ceramics?
- 5) Enlist raw materials used in manufacturing of Ceramics.
- 6) Discuss porous (permeable) and non-porous (impermeable) wares.
- 7) What is drying process? Explain continuous dryer.
- 8) Give characteristic of Red lead pigment.
- 9) Explain cleansing action of soap in brief.
- 10) Give chemical reaction for Chrome green pigment.

Q2] Answer any two from the following: 14

- 1) Explain Detergent powder manufacturing in detail.
- 2) Describe Recovery of glycerin from spent lye by Ancillary process.
- 3) Discuss continuous manufacturing process of Soap.

Q3] Answer the following: 14

- 1) Discuss various application methods of colors in Pottery.
- 2) Discuss various properties of fire clay refractories in detail.

OR

Q3] Answer the following: 14

- 1) Give characteristics of good refractory. Discuss refractoriness and spalling.
- 2) Explain drying, firing and glazing methods involved in the manufacturing of ceramics.

Q4] Answer any two from the following: 14

- 1) Discuss manufacturing process of Iron Oxide pigment in detail.
- 2) Write a note on Paint removers.
- 3) Describe the manufacturing of Paints with process flow diagram.

Q5] Answer any two from the following: 14

- 1) Describe detrimental effects of Detergents in detail.
 - 2) Discuss Dutch process for manufacturing of White Lead pigment in detail.
 - 3) Explain manufacturing of Refractories.
 - 4) Explain various constituents of Paints in detail.
-