

**B.TECH. SEM -I (CHEMICAL) 2014 COURSE (CBCS) : WINTER -
2017**

SUBJECT : CHEMICAL ENGINEERING MATERIALS

Day **Saturday**
Date **20/01/2018**

Time **10.00 AM TO 01.00 PM**
Max. Marks : 60

W-2017-2001

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Explain the criteria for selection of material for any particular application in process industries. [10]

OR

What are the technological properties and their impact on application of material in process industry?

Q.2 What are important ferrous alloys? Describe the variation in applicability with difference in properties. [10]

OR

Which are different non-ferrous alloys? How their properties affect applicability in process industry?

Q.3 What are paints and coatings? How they are useful in process industry? [10]

OR

Describe properties and application of Teflon in process industries.

Q.4 What is glass? What are special types of glasses? Explain their properties and applications.

OR

What are cements? Which are special cements? Describe its applications.

Q.5 What is creep and stress? How it affects material properties? [10]

OR

What is corrosion? Which are different causes of corrosion? Explain the factors affecting corrosion.

Q.6 What are composites and blends? What is their importance in application of material in process industry? [10]

OR

What are the types of lining used in process industry? Explain their differences and importance with example.

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