B. Tech.
(SEM. VIII) EXAMINATION, 2006-07
STANDARDIZATION IN
CHEMICAL PROCESS INDUSTRIES

Time : 3 Hours] [Total Marks : 100

Note : (i) Attempt all questions
(ii) All questions carry equal marks
(iii) In case of numerical problems assume data wherever not provided.
(iv) Be precise in your answer.

1 Attempt any four parts of the following:  $5 \times 4 = 20$

(a) Why standards are useful for a country?
(b) How standards can benefit chemical industry?
(c) How quality can be defined?
(d) Give reasons for formulating standards for financial returns.
(e) What are considerations in making standards for manual work?
(f) What are various standards for equipment in chemical industry?

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2 Attempt any four parts of the following. 5×4=20
(a) How many standards exist in India? What were the objectives of ISI?
(b) What should be main features of a National Standard System?
(c) How a National Standard System should be evaluated?
(d) What was the standard introduced in Uttar Pradesh?
(e) What is ASI? What is its purpose?
(f) Why Bureau of Indian Standards was established?

3 Attempt any two parts of the following. 10×2=20
(a) What is statistical quality control?
(b) What are objectives of inspection in standardization process?
(c) What are the factors to be considered while evaluating a proposal for standardization?

4 Attempt any two parts of the following. 10×2=20
(a) What are material standards for a fertilizer industry?
(b) What are salient features of ISO?
(c) Describe an important standard used primarily for “environmental management.”

5 Attempt any two parts of the following. 10×2=20
(a) How technology helps the standardization process?
(b) How economy in general is affected by standardization?
(c) How standards for financial returns help industry and investors?