



SF-8318

B. E. III (Sem. VI) (Chemical) Examination

May / June - 2011

Chemical Process Industries - II

(New Syllabus)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. 3 (Sem. 6) (Chemical)

Name of the Subject :
Chemical Process Industries - 2 (New)

Subject Code No. : 8 3 1 8 Section No. (1, 2,.....): 1&2

Seat No. :

Student's Signature

- (2) Write all the answers in one answer sheet.
- (3) Figure to the right indicate full marks.
- (4) Draw neat sketch wherever necessary.

SECTION – I

- 1 (a) Draw the structure of following : 10
 - (i) Barbitol
 - (ii) Pheno Barbitol
 - (iii) H-acid
 - (iv) Azine
 - (v) Oxazines
- (b) Discuss the manufacturing process of nitrobenzene with complete flow diagram. 8

- 2 Attempt any **two** of the following : 16
 - (a) Discuss the manufacturing process of Aspirin.
 - (b) Discuss about :
 - (i) Acid dyes
 - (ii) Basic dyes
 - (iii) Disperse dyes
 - (c) Explain the manufacturing process of Vitamin-C.

- 3 Attempt any four of the following : 16
- (a) Discuss about thiazines and thiazoles dye.
 - (b) Vat dyes
 - (c) Classify the drugs
 - (d) Manufacturing process of aniline
 - (e) Draw the structure of Anthroquinone dyes and discuss about it.

SECTION – II

- 1 (a) Write unit operations involved in manufacturing of sugar. 2
- (b) Draw process flow - diagram and explain it for manufacturing process for paints. 8
- (c) Explain manufacturing process of beer. 8
- 2 Attempt any **two** : 8×2=16
- (a) Write in detail manufacturing process for white pigment.
 - (b) Differentiate manufacturing process for sugar from sugar cane and sugar beet.
 - (c) Discuss fermentation industry.
- 3 Attempt **two** : 8×2=16
- (a) Industrial coating and varnishes
 - (b) Manufacturing of spirit.
 - (c) (i) Red pigment
 - (ii) Yellow pigment
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