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NA—147—2023

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

INDUSTRIAL CHEMISTRY

Paper XV

(Plant Design and Economics for Chemical Engineers)

(Friday, 22-12-2023)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

N.B. :— Solve All questions.

1. What are the factors affecting profitability of investment ? 15

Or

(a) Draw and explain flow diagram. 8

(b) Explain and draw plant layout. 7

2. Explain estimation of capital investment. 15

Or

(a) Explain compound interest. 8

(b) Explain in detail Investment and Government policies. 7

P.T.O.

WT

(2)

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3. Write short notes on (any *two*) : 10

- (a) Nominal and effective interest rate
- (b) Utilities
- (c) General design consideration
- (d) Discount and profit.