

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 151855

Roll No.

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B.TECH.

Theory Examination (Semester-VIII) 2015-16

FERTILIZER TECHNOLOGY

Time : 3 Hours

Max. Marks : 100

Note : Attempt all Sections.

Section-A

1. Attempt ALL of the following : (2×10 = 20)

- (a) Explain NPK.
- (b) What is the role of Nitrogen, Phosphorous and potassium in fertilizer?
- (c) Discuss the fertilizer pollutants.
- (d) Give the name of five fertilizer companies in India.
- (e) Define ETP.
- (f) Write mixed fertilizer.
- (g) What is the application of cooling tower?

(1)

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- (h) What is the importance of Prilling tower in urea manufacturing?
- (i) Write the nitrogen content in urea, and mixed fertilizer.
- (j) Define corrosion.

Section-B

2. Attempt any FIVE of the following [10×5=50]

- (a) Give the brief introduction of India fertilizer industries.
- (b) What are the various processes for manufacturing of NPK. Discuss one of them in details.
- (c) Discuss the manufacturing of Phosphatic fertilizer.
- (d) Write the note on DCS system in fertilizer industry.
- (e) Define retrofits and modernization. Write the various modernization techniques. Explain one of them.
- (f) Write the design of ammonia converters.
- (g) What are the various Problems faced by fertilizers industries?
- (h) What are the various control measures in disposal of waste from fertilizer units?

Section-C

Attempt any TWO of the following :-

(15×2=30)

3. Discuss the scenario of fertilizer industries in India.
4. Write the various energy conservation and diversification techniques used in fertilizer industries.
5. Discuss pollution abatement and disposal of waste in fertilizer industries.

