(Following Paper ID and Roll No. to be filled in your Answer Books)	
Paper ID : 151855	Roll No.

B.TECH.

Theory Examination (Semester-VIII) 2015-16

FERTILIZER TECHNOLOGY

Time : 3 Hours

Max. Marks : 100

 $(2 \times 10 = 20)$

- Note : Attempt all Sections.
 - Section-A
- 1. Attempt ALL of the following :
 - (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?

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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.

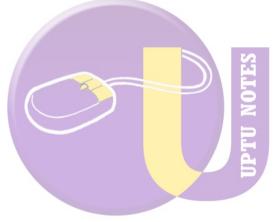
- (b) What are the various processes for manufacturing of NPK. Discuss one of them in details.
- (c) Discuss the manufacturing of Phosphatic fertilizer.
- (d) Write the note on DCS system in fertilizer industry.
- (e) Define retrofits and modernization. Write the various modernization techniques. Explain 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?

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Section-C

Attempt any TWO of the following :- $(15 \times 2=30)$

- 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 abetment and disposal of waste in fertilizer industries.



P.T.O.