

Register No.:

533

April 2024

Time – Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. What are the major engineering problems of phosphoric acid manufacturing?
2. Give the applications of nitric acid.
3. List down the physical properties of ammonium sulphate.
4. List the importance of storage and handling of ammonium sulphate.
5. Write the physical properties of triple super phosphate.
6. List out the classification of phosphatic fertilizer.
7. Write down the application of potassium sulphate.
8. Write about the specialty of potash fertilizers.
9. What are the types of complex fertilizer?
10. Write notes on Biofertilizers.

[Turn over.....

PART – B

11. (a) Explain the role of essential elements in plant growth.
- (Or)
- (b) Discuss about the feed stock and raw materials for Nitrogenous and Potassic fertilizer.
12. (a) Explain the manufacturing process of ammonia with neat diagram.
- (Or)
- (b) Discuss about the characteristics and application of Urea and Ammonium Chloride.
13. (a) Explain the production, storage and handling specifications of single super Phosphate.
- (Or)
- (b) With a neat sketch, explain the manufacturing process of ammonium poly phosphate.
14. (a) Explain the manufacturing process of potassium nitrate with neat diagram.
- (Or)
- (b) Explain the manufacturing process of Muriate potash with a neat diagram.
15. (a) Explain the manufacturing process of Urea - Ammonium Phosphate with neat sketch.
- (Or)
- (b) Explain about the raw material, product characteristic and applications of potassium nitrate.
