



- Notes :
1. Answer **three** question from Section A and **three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Diagrams and chemical equations should be given wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Discuss the reaction, mechanism wherever necessary.
 7. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION - 'A'

1. a) What are nitrating agents? Discuss mixed acid for nitrations. 7
b) Describe sulfonation of ethanol. 7

OR

2. a) Explain preparation of P-nitroacetanilide. 7
b) What are sulfonating & sulfating agents and their principal applications? Discuss ball-mill sulfonator. 7
3. a) What is halogenation? Explain preparation of vinyl chloride from ethylene. 7
b) Explain synthesis of methanol. 6

OR

4. a) Describe hydrogenation of a gas oil. 7
b) Discuss manufacture of chlorobromomethane. 6
5. a) Discuss the classification of waste water. 6
b) Describe manufacture of styrene from ethylbenzene. 7

OR

6. Draw the manufacturing process of electro-plating industry. How we can treat the waste water? Give their sources of waste water. 13

SECTION - 'B'

7. a) Describe manufacture of sulfur dioxide. 7

b) Explain preparation of potable water.

7

OR

8. What are sources of water? Describe manufacture of helium from natural gas. 14

9. What are application of nitric acid? Describe manufacture of nitric acid by ammonia oxidation process. 13

OR

10. Describe the production of magnesium compounds from sea water. 13

11. What are primary and secondary cell? Describe urea manufacturing process by stripping. 13

OR

12. What is difference between complex & compound fertilizers? Describe manufacture of silicon carbide. 13

<http://www.sgbauonline.com>

Whatsapp @ 9300930012

Your old paper & get 10/-

पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से