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BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 2019
DIPLOMA IN CHEMICAL ENGINEERING
ORGANIC CHEMICAL TECHNOLOGY
FOURTH SEMESTER EXAMINATION

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Time: 3 HoursTotal Marks: 80PART - A (3m x 10 = 30m)*Note 1: Answer all questions and each question carries 3 marks**2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences*

1. Explain briefly the theories of formation of coal
2. Discuss briefly the working principle of a cooling tower
3. Explain briefly about instrument air
4. State about the origin of crude
5. Write down the general reaction for soap production
6. What is meant by LDPE and HDPE?
7. Discuss briefly about mechanical pulp
8. What is molasses?
9. List end uses of Nylon.6
10. Why additional processing required for rubber?

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PART - B (10m x 5 = 50m)*Note 1: Answer any five questions and each carries 10 marks**2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer*

11. Describe about the coal Tar distillation with a flow diagram
12. Describe about the distillation of crude petroleum with a neat diagram
13. Describe the processing method of 1,2-dichloro ethane with a neat diagram.
14. Describe the manufacture of LDPE and HDPE.
15. Discuss the processing of cold black liquor in paper and pulp industry

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- 16. What are the steps involved in clarification process during refining of sugar?
- 17. Explain the manufacture of a Nylon-6 with a neat diagram.
- 18A. Describe overall processing of vegetable Oil with a neat diagram.
- B. Explain in detail about the additional processing used in rubber industry

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