

26-04-2018 - AM

S5 CH

TED (15) 5072
[Revision 2015]

Reg.No.
Signature.

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE- APRIL - 2018.

ORGANIC TECHNOLOGY

(Maximum Marks : 100)

Time : 3 Hrs

PART-A
(Maximum marks: 10)

Marks

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. Define Saponification value of oil.
2. Define Detergency.
3. List the advantages of laminated paper.
4. Define sensitivity of an explosive.
5. State the different steps involved in the preparation of cane for milling.

[5X2=10]

PART - B
(Maximum Marks : 30)

II Answer any five of the following questions . Each question carries 6 marks.

1. Explain solvent extraction process of vegetable oil with a neat flow diagram.
2. Describe the manufacture of Dodecyl benzene.
3. Describe the manufacture of pulp from waste paper.
4. Distinguish chemical, mechanical and semi-chemical processes of pulp manufacture.
5. Explain the manufacture of RDX with a neat sketch.
6. Differentiate the properties of primary and secondary explosive.
7. Describe milling and extraction of cane juice.

[5x6 =30]

PART - C
(Maximum marks : 60)

(Answer one full question from each unit. Each full question carries 15 marks)

UNIT I

- III (a) Describe the refining of vegetable oil with a neat sketch. (9)
- (b) Summarize the features of saturated and unsaturated fatty acids. (6)

OR

- IV (a) Explain continuous process for toilet soap manufacture with a neat sketch. (9)
(b) Differentiate the merits and demerits of extraction by expeller and by using solvent. (6)

UNIT- II

- V (a) Describe the working of Fourdiner paper machine with a line diagram. (9)
(b) Explain soda process for making pulp. (6)

OR

- VI (a) Explain the role of different additives mixed with pulp. (7)
(b) Describe mechanical pulping process using grinders. (8)

UNIT- III

- VII (a) Describe the manufacture of Nitrocellulose with a flow diagram. (8)
(b) Explain high explosive ammunition with a sketch. (7)

OR

- VIII (a) Describe the manufacture of smokeless powder with a flow diagram. (8)
(b) Describe the manufacture of dynamite with a flow diagram. (7)

UNIT – IV

- IX (a) Describe the manufacture of starch from corn with a flow diagram. (8)
(b) Explain purification of cane juice for evaporation. (7)

OR

- X (a) Describe vegetable tanning and chrome tanning processes used in leather industry. (10)
(b) Explain centrifuging and drying methods of sugar crystals. (5)
