

TED (15) 5072  
(Revision 2015)

Reg.No. ....  
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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/  
COMMERCIAL PRACTICE – APRIL -2019.

ORGANIC TECHNOLOGY

(Maximum Marks : 100)

[Time : 3 hours]

**PART-A**  
(Maximum marks: 10)

Marks

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

1. Define acid value of oils.
2. Define rancidity of oil.
3. List the additives mixed with pulp.
4. Define sensitivity.
5. List two types of tanning.

(5x2=10)

**PART - B**  
(Maximum Marks :30)

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

1. Define iodine value, saponification value.
2. Describe solvent extraction.
3. Describe the bleaching of pulp using different bleaching agent.
4. Draw the flow diagram of chemical recovery from black liquor.
5. Describe briefly the manufacture of Dynamite.
6. Draw the flow diagram for the manufacture of starch from corn.
7. Describe vegetable tanning.

[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 hydrogenation of oils. (7)
- (b) Differentiate the merits and demerits of extraction by expeller. (8)

OR

- IV (a) Describe the treatment of spent lye. (7)  
(b) Describe the extraction process of oil by expellers. (8)

UNIT- II

- V (a) Draw the flow diagram of sulphate process. (7)  
(b) Describe the manufacturing process of sulphate process. (8)

OR

- VI (a) Illustrate Fourdrinier paper making machine. (7)  
(b) List the advantages of laminate paper. (8)

UNIT- III

- VII (a) Describe high explosive ammunition. (7)  
(b) Explain the manufacture of PETN. (8)

OR

- VIII (a) Describe the manufacture of nitrocellulose. (7)  
(b) Define bio-insecticide and describe the mode of action of insecticides. (8)

UNIT – IV

- IX (a) Draw the flow diagram of sugar manufacture. (7)  
(b) Describe the manufacture of starch from Tapioca. (8)

OR

- X (a) Explain the manufacture of starch from Corn. (7)  
(b) Describe refining process of sugar. (8)

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