

No. of Printed Pages : 03

Roll No.

18BB1753

M.Tech. EXAMINATION, May 2019

(Second Semester)

(C Scheme) (Main Only)

(MSN)

MSN516C

POLYMER SCIENCE AND TECHNOLOGY

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt any *Five* questions. All questions carry equal marks.

(3-47/1) M-18BB1753

P.T.O.

1. Discuss in detail the classification and mechanism of polymerization. **15**

2. What is Conducting Polymers ? Write the preparation, properties and uses of Bakelite and PVC. **15**

3. What are Conducting Polymers ? Explain its properties and classification. **15**

4. Write the complete steps of reaction involved in the preparation of Nylon-6 from cyclohexane and Nylon 66. **15**

5. Explain the following properties of polymers in detail :

(a) Tensile

(b) Impact strength

(c) Mouldability. **15**

6. Write notes on the following :

(a) Plasticisers

(b) Lubricants

(c) Inhibitors. **15**

7. Discuss in detail about Biodegradable Plastics. **15**

8. Discuss properties in service environments and effects of vapours and solvents on polymeric materials. **15**

M-18BB1753

2

(3-47/2) M-18BB1753

3

50