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Roll No. ....

**5th Sem. / Plastic Technology  
Subject : Plastic Recycling & Waste Management**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)**

Q.1 Example of Natural polymer

- a) Starch
- b) Teflon
- c) Poly chloroprene
- d) None of these

Q.2 Man made fabrics is called as

- a) Natural
- b) Synthetic
- c) Both A & B
- d) None of these

Q.3 Degradation of plastics means

- a) Loss of molecular weight
- b) Breaking of long polymer chain
- c) Both A & B
- d) None of these

Q.4 In which of the following is synthetic polymer

- a) Poly vinyl chloride
- b) Nylon 6
- c) PTFE
- d) All of these

- Q.5 Example of Thermoset material for dinner set  
a) MF                          b) UF  
c) PF                          d) None of these
- Q.6 Hair burning smell  
a) Nylon 6                    b) PVC  
c) PS                          d) None of these

### Section-B

**Note:** Objective/Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

- Q.7 Define segregation.  
Q.8 What is Chemical degradation?  
Q.9 Write example of primary recycling.  
Q.10 Write two advantages of recycling.  
Q.11 Define stabilizer.  
Q.12 Define lubricants.

### Section-C

**Note:** Short answer type Question. Attempt any eight questions out of Ten Questions.  $(8 \times 4 = 32)$

- Q.13 Explain recycling of plastics and their types with example.  
Q.14 Explain sources of plastic waste.  
Q.15 Explain solvent separation technique of plastics.

- Q.16 Write two example of natural polymers.  
Q.17 Write one toxic chemical name which is loaded in plastics.  
Q.18 Write short note on proper disposal of plastics waste.  
Q.19 Write in brief an identification method of plastics waste.  
Q.20 Write in brief equipment based sorting techniques.  
Q.21 Explain natural and synthetic polymers with two examples of each.  
Q.22 Discuss degradation and their types explain anyone of them.

### Section-D

**Note:** Long answer questions. Attempt any two question out of three Questions.  $(2 \times 8 = 16)$

- Q.23 Write in brief on how plastics are harmful to human.  
Q.24 Write merits and demerits of recycling of plastic waste.  
Q.25 Write short on  
a) Agents for increasing life expectancy of polymers  
b) Land filling