

- Q.31 State the role of plasticizer.
  - Q.32 Explain mold releasing agents.
  - Q.33 Explain blowing agents in plastics.
  - Q.34 Explain degradation of plastics and their types.
  - Q.35 Explain the significance of compounding in plastic industries.

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**5th Sem. / Plastics Technology**

## **Subject:- Compounding and formulation of plastics/ Compound of Poly.**

Time : 3Hrs.

M.M. : 100

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.5 Algae growth in water is controlled by  
a) Deoxidation      b) Chlorination  
c) Bleaching      d) Aeration
- Q.6 Which material is a heat sensitive  
a) PVC      b) PVDF  
c) PET      d) None of these
- Q.7 Screw extruder is a \_\_\_\_\_ process  
a) Continuous      b) Batchwise  
c) Both a and b      d) All of these
- Q.8 \_\_\_\_\_ are mixed using ribbon blender  
a) Lumpy solid & low viscosity liquids  
b) Dry powders  
c) High viscosity liquid  
d) None of these
- Q.9 The most suitable for compounding of rubber  
a) Banbury mixer      b) Pan mixer  
c) Pug mill      d) All of these
- Q.10 Examples of fillers are  
a) Wood flour      b) Clay  
c) Sand      d) All of these

## SECTION-B

**Note:** Objective type questions. All questions are compulsory.  $(10 \times 1 = 10)$

Q.11 Define colorant.

- Q.12 Define screw.  
Q.13 Write an example of blowing agent.  
Q.14 Define additives.  
Q.15 Define compounding of plastics.  
Q.16 What are pigments?  
Q.17 Write an example of heat stabilizer.  
Q.18 Define gelation.  
Q.19 Function of extruder.  
Q.20 Define compatibility of plastics.

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.  $(12 \times 5 = 60)$

- Q.21 Explain the principle of internal and external lubricants with suitable example.  
Q.22 Explain service life of plastics and their applications.  
Q.23 Explain the role of antislip agents in plastics.  
Q.24 State four ingredients used in thermoplastics.  
Q.25 State the role of plasticizer.  
Q.26 What are processing aids?  
Q.27 Explain the function of lubricants in plastics.  
Q.28 Explain the roll of antistatic agents in plastics.  
Q.29 Draw neat and labelled sketch of two roll mill.  
Q.30 State five ingredients used in thermoplastics.