

- Q.26 Write five applications of polymer composites  
 Q.27 Give five applications of NBR  
 Q.28 Give five applications of PVC  
 Q.29 Give five applications of nylon  
 Q.30 Write five properties of PP  
 Q.31 Write the synthesis of melamine formaldehyde  
 Q.32 Write the starting materials to form nylon 6,6. Give their structure also  
 Q.33 Write two applications and three properties of PET  
 Q.34 What are cellulosic plastics. Give their five properties.  
 Q.35 Give five properties of PP

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)  
 Q.36 What is LLDPE. How is it formed. Give its two properties and two applications  
 Q.37 How Epoxy resin are formed and synthesized, Give its five properties.  
 Q.38 How nylon 6 is formed and synthesized, give its two properties and two applications

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### 3rd Sem / Plastics Technology

#### Subject:- Plastic materials and properties - I

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Plastics materials are  
 a) Macromolecules      b) Synthetic materials  
 c) Thermoplastic      d) All of these
- Q.2 Polybutadiene is  
 a) Rubber      b) Thermoplastic  
 c) Thermoset      d) Plastics
- Q.3 ABS is  
 a) General purpose plastics  
 b) Engineering plastics  
 c) speciality plastics  
 d) Thermoset
- Q.4 UF resin  
 a) Can be used in food contact application  
 b) Can not be used in food contact applications  
 c) can not say anything  
 d) none of above

- Q.5 SAN is a
- Homopolymer
  - Co Polymer
  - Thermoset
  - none of above
- Q.6 Cellulose is obtained from
- Trees
  - Petrochemicals
  - Fishes
  - None of above
- Q.7 Nylon material cannot be used in
- Injection moulding process
  - Extrusion moulding Process
  - Thermoforming process
  - Casting process
- Q.8 PMMA is polymerized by
- Bulk polymerization
  - Solution polymerization
  - Suspension polymerization
  - None of above
- Q.9 Epoxy resin is used to make
- Composite
  - FRP
  - Boh a & b
  - None of above
- Q.10 Nitrile rubber is
- Synthetic
  - semi synthetic
  - Natural
  - Bio polymer .

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand the term SAN
- Q.12 Expand the term GPPS
- Q.13 Write the structure of PVC
- Q.14 What is density of PP
- Q.15 PU is used to make foams ( T/F)
- Q.16 Expand the term PVC
- Q.17 Write the structure of formaldehyde
- Q.18 Expand the term XPE
- Q.19 Expand the term GRP
- Q.20 Define thermoset plastics

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Define engineering plastic . Give their three properties
- Q.22 Write solution Polymerization technique to prepare PVC
- Q.23 HIPS is a blend or co polymer , Justify your answer
- Q.24 Give two properties and three applications of PMMA
- Q.25 Write five applications of PC material