

Q.35 Which material is used as mold release agent. Justify your answer.

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SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)

Q.36 Write synthesis method for HDPE. Give its two applications and two properties.

Q.37 Write synthesis method of UPE resin. Give its five applications.

Q.38 Write the synthesis method of Nylon 6,6. Give its five applications.

3rd Sem.

Branch : Plastic

Sub: Plastic Materials & Properties –I

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (10x1=10)

Q.1 Polymers are

- a) Natural materials
- b) Synthetic materials
- c) Plastics
- d) All of above

Q.2 Rubbers are

- a) Polymers
- b) Natural materials
- c) Synthetic materials
- d) All of above

Q.3 Nylon has

- a) Sharp M.P.
- b) Low Tg
- c) No Tg
- d) None of above

Q.4 Phenol formaldehyde is

- a) Thermoplastic
- b) Thermoset
- c) Elastomer
- d) Rubber

Q.5 Cellulose plastics fall under the category of

- a) Synthetic polymers
- b) Semi synthetic polymers
- c) Natural polymers
- d) None of above

- Q.6 In ABS word A stands for
a) All b) Anti
c) Acylonitrile d) Acid

Q.7 Polyester based plastics are
a) Thermoplastic b) Thermoset
c) Both A & B d) None of above

Q.8 Products made by PMMA are
a) Opaque b) Translucent
c) Transparent d) None of above

Q.9 UPE resin is used to make
a) FRP b) Composites
c) Both A & B d) None of above

Q.10 Natural rubber is obtained from
a) Trees b) Crops
c) Sea d) None of above

SECTION-B

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

- Q.11 Expand the term ABS.
 - Q.12 Expand the term PMMA.
 - Q.13 What is Tg value for PE
 - Q.14 Write the structure of any phenol.
 - Q.15 Give one application area of PU resin.
 - Q.16 Expand the term SBR.
 - Q.17 Write the structure of PVC.

- Q.18 Expand the term FRP.
Q.19 Expand the term LLDPE.
Q.20 Define thermoplastic plastics.

SECTION-C

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

- Q.21 Define commodity plastics give their any three properties.

Q.22 Write in situ polymerization technique of prepare HIPS.

Q.23 Can PVC be processed in virgin form, justify your answer.

Q.24 Write bulk polymerization technique to prepare PMMA.

Q.25 Write five applications of PVC material.

Q.26 Give five applications of FRP.

Q.27 Give five applications of SBR.

Q.28 Write five properties of PET.

Q.29 Based on preparation. Give difference between HIPS & ABS.

Q.30 Give five applications of PVC.

Q.31 Write the synthesis of UF resin.

Q.32 Write the starting materials to prepare PU resin.

Q.33 Write two properties and two applications of PC.

Q.34 Give five applications of cellulosic plastics.