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222253

Roll No.

5th Sem. / Plastic Technology
Subject : Compounding & Formulation of Plastics

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Function of plasticizer is to
- a) Increase The flexibility
 - b) Increase the rigidity
 - c) Decrease the flexibility
 - d) All of these
- Q.2 Which types of lubricants are used in plastic industry?
- a) Solid b) Liquid
 - c) Gas d) All of these
- Q.3 Fillers are used in plastic to improve
- a) Mechanical properties
 - b) Electrical properties
 - c) Thermal properties
 - d) All of these

- Q.4 Expanded form of phr
 a) Part per hundred resin
 b) % per hundred resin
 c) Both A & B
 d) None of these
- Q.5 Example of slip agents
 a) Coal powder b) Grease
 c) Graphite d) All of these
- Q.6 Stabilizers are an example of
 a) White lead b) Berium
 c) Cadmium Laurate d) All of these

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Write two example of blowing agents.
 Q.8 Define compounding with example.
 Q.9 Define UV stabilizer with example.
 Q.10 DOP is plasticizer of PVC. (True/False)
 Q.11 What are lubricants used in plastics compounding.
 Q.12 Write two examples of flame retardant.

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

- Q.13 Explain flame retardant and their function in plastics compounding.

- Q.14 Explain twin screw extruder working and construction with neat sketch.
 Q.15 What are UV stabilizers? Discuss their working.
 Q.16 What is the function of internal and external lubricants.
 Q.17 What are intensive dry mixers explain any one of them.
 Q.18 Discuss ageing phenomenon in plastics.
 Q.19 Discuss the role of kneaders in plastics industries.
 Q.20 What are lubricants and their types explain briefly.
 Q.21 Discuss fillers and write their functions in various Plastic industries.
 Q.22 Draw a neat sketch of two roll mill and label it.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

- Q.23 Explain role of stabilizers in plastic industries and also discuss the type of stabilizer.
 Q.24 Discuss the significance of compounding for enhancing the service life of plastics.
 Q.25 Explain briefly construction and working of Banbury mixer.