

(Following Paper ID and Roll No. to be filled in your Answer Books)

PAPER ID : ME15

Roll No.

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M. TECH. (Sem.II)

THEORY EXAMINATION 2015-16

ADDITIVES, BLENDS & ALLOYS OF POLYMERS

Time : 3 Hours

Total Marks : 100

SECTION-A

1. Attempt all parts. All parts carry equal marks. Explain each part in short. (2×10=20)
- (a) Antistatic agents
 - (b) Intercalation
 - (c) Exfoliation
 - (d) Blowing agents
 - (e) Wetting
 - (f) Nucleating agents
 - (g) Nano additives
 - (h) Dispersive mixing
 - (i) Craze
 - (j) Anti block agents

SECTION-B

Note : Attempt any five questions from this section. (10×5=50)

2. What do you mean by compatibility? Discuss the mechanism of compatibilization.
3. Distinguish between blends and composites.
4. Explain various lubricants used in plastics.
5. How do you classify twin screw extruders?
6. Describe high speed mixer as compounding equipment.
7. Discuss in detail the various types of Pasticizers.
8. Explain interpenetrating networks in brief.
9. Write in brief the formulation and compounding of PVC.

SECTION-C

Note : Attempt any two questions from this section. (15×2=30)

10. What do you mean by antioxidants? Explain their mechanism of action.
11. Discuss various types of blenders in brief.
12. Explain scanning electron microscopy.

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