

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

Paper ID : 141663

Roll No.

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B.TECH.

Theory Examination (Semester-VI) 2015-16

PLASTIC MATERIAL & MANUFACTURING

Time : 3 Hours

Max. Marks : 100

Attempt all the question

Section-A

(10×2 = 20)

1. Explain the following:

- (a) Alloys
- (b) Thermoplastic
- (c) high performance polymer
- (d) Amorphous
- (e) Glass transition temperature
- (f) dielectric strength
- (g) Engineering Plastics
- (h) cross linked

UPTU NOTES

- (i) Elastomer
- (j) Number Average molecular weight

Section-B

2. Attempt any five (10×5 = 50)

- (a) Write any two methods which is used to determine the molecular weight of polymer?
- (b) Describe the properties and application of polypropylene?
- (c) Write is resole? Explain in detail.
- (d) Explain the optical properties of plastic?
- (e) Explain the properties and application of polyacetate?
- (f) Explain the effect of glass transition temperature on properties of polymer?
- (g) Discuss various type of gates in moulds?
- (h) Discuss the different process variable in extrusion molding?

Section-C

Attempt any two :

(15×2 = 30)

3. Explain the importance of testing? Describe the mechanical testing of polymer?
4. Discuss the process of injection molding for plastic with neat sketch?
5. Write a detail note on processing of thermo sets by compression moldings?

