



17550

16117

3 Hours / 100 Marks

Seat No.

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- Instructions :**
- (1) *All questions are compulsory.*
 - (2) *Illustrate your answers with neat sketches wherever necessary.*
 - (3) *Figures to the **right** indicate **full** marks.*
 - (4) *Assume suitable data, if **necessary**.*

	Marks
1. Attempt any ten :	20
a) State principle of Rotomoulding.	2
b) Why rpm of minor axis is less than major axis in rotomoulding.	2
c) List moulding compounds used in compression moulding.	2
d) What do you mean by degassing ?	2
e) State any two defect, cause and remedies in compression moulding.	2
f) Write function of transfer pot.	2
g) Define calendering.	2
h) Enlist the different configuration of calendering unit.	2
i) Why pvc is calender rather than extrusion.	2
j) State principle of blending.	2
k) List down application of calendering sheet.	2
l) Why plastic product required finishing and matching after processing.	2
m) Enlist methods of surface treatment.	2
n) For decoration of pen which decorative tech used ?	2
2. Attempt any four :	16
a) Describe the steps of rotomoulding process.	4
b) Differentiate between hand operated and automatic compression moulding.	4
c) With dig. explain pot type transfer moulding.	4
d) Give trouble shooting guide for rotomoulding.	4
e) Describe configurations of four roll calendering units with resp to working and suitability.	4
f) Explain working of high speed blender with neat dig.	4

P.T.O.

	Marks
3. Attempt any four :	16
a) State any four major limitations of transfer moulding.	4
b) Why calender sheet is trimmed at edges ?	4
c) Describe the heating system used in rotomoulding.	4
d) Write down advantages and limitations of compression moulding.	4
e) Explain the working of Batch type rotomoulding with neat dig.	4
f) Compare compression and transfer moulding process.	4
4. Attempt any four :	16
a) State effect of preheating.	4
b) Explain hot gas welding and state its any two applications.	4
c) With neat sketch explain screw type transfer moulding.	4
d) Elaborate the followings.	4
a) Roll crowning b) Roll beneling	
e) Describe construction and working of upstroke compression moulding.	4
f) Draw neat sketch of joint design in adhesive bonding.	4
5. Attempt any four :	16
a) Describe embossing of calendering product.	4
b) Write down electroplating process for decoration of plastics.	4
c) How will you classify welding tech ?	4
d) State the limitations and advantages of hot transfer process.	4
e) Enlist types of flocks and describe mechanical flocking process.	4
f) State the purposes of following.	4
1) Filing 2) Grinding	
3) Drilling 4) Buffing.	
6. Attempt any four :	16
a) Describe induction welding process with neat sketch and state its any two applications.	4
b) Metal inserts are welded with plastics by ultrasonic welding. Justify.	4
c) Describe corona discharge treatment with film.	4
d) Explain vacuum metalizing tech used with plastics with neat dig.	4
e) Write procedure for solvent cement by dope method.	4
f) Describe rotograve printing with neat sketch.	4