xiv) Write short notes on

a) Metallization b) Encapsulation

xv) Describe briefly extrusion molding, their parts, function and working.

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

Q.3 Give the construction and working of reciprocating injection molding machine with neat sketch.

Q.4 Explain different zone in injection molding with neat sketch and explain their function.

Q.5 Write down the ten defects their causes and remedies in injection molding products.

Q.6 Explain injection molding of thermoset of a plastic material.

Q.7 Write short notes on

a) Blow molding b) Compression molding process

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122245/032245

4th Sem. / Plastic Tech.

Subject : Plastic Processing Tech-I

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

Q.1 a) Define parting line.

b) Write importance of predrying of plastic material.

c) Define hold on time.

d) Define maximum daylight.

e) Define thermoplastic with suitable examples.

f) Define sink mark.

g) Define streak marks.

h) Types of clamping mechanism.

i) Define helix angle.

j) Name any four defects in injection molding.

k) Define punching.

l) What do you understand by post processing operation.

m) Write the function of torpedo.

n) How to calculate clamping force.

o) Expand RIM.

p) Name the process by which bottles are made.

q) Define Extrusion molding process.

r) Define mold.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

Q.2 i) Define polymer melt flow processes.

ii) What is clamping force and its types?

iii) Define following

a) Warpage b) Shrinkage

iv) Define hand injection modling with neat sketch.

v) What is flexographic printing with suitable example.

vi) Define Electroplating of plastics material.

vii) Describe injection molding of thermoset materials.

viii) What is projected area. How it is calculated.

ix) How to optimize the cycle flow in injection.

x) Explain toggle clamping unit with neat sketch.

xi) Explain startup and shut down procedure in injection molding.

xii) Define Following.

a) Pad printing b) Gravure printing

xiii) Define thermocouple. Explain its use in plastic processing.