

SECTION-C

No. of Printed Pages : 4

Roll No.

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

Q.3 What is the effect of process variables on the product design and properties.

Q.4 Write down the construction working and principle of extrusion process.

Q.5 Give any five defects and how they can rectify of injection moulding.

Q.6 Write short note on :

a) Type of screw

b) L/D ratio

Q.7 What is parison programming ? Explain its role in the manufacturing of irregular shapes by using suitable diagram.

5th Sem. / Rubber Tech.

Subject : Rubber Processing Tech-II

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

Q.1 a) Bulk density

b) Shot Capacity

c) Blow ratio

d) Short - shot

e) Clamping Tonnage

f) Minimum Daylight

g) Purpose of hopper dryer.

h) Core

i) Feed system

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- j) Curing time
- k) Why vents are provided in mould
- l) Ram pressure
- m) Sink mark
- n) Biaxially orientation
- o) Pinch off.
- p) Parison programming.
- q) L/D ratio
- r) Helix angle

SECTION-B

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

- Q.2
- i) Explain the working of manual operating injection machine.
 - ii) How parison wall thickness is control.
 - iii) Explain the principle of semiautomatic injection moulding.

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- iv) Explain parison programming of blow moulding.
- v) Define bulk factor and bulk density.
- vi) How to calculate the line pressure in transfer moulding.
- vii) Give the selection criteria of injection moulding machine.
- viii) Explain various trimming method used in blow moulding.
- ix) Explain flash mould with sketch.
- x) Why preheating of moulds is done?
- xi) What is parison. How it is mode?
- xii) Name any four injection moulding defects.
- xiii) Draw the diagram of single screw extruder.
- xiv) What is the principle of transfer moulding.
- xv) Explain mould venting.

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