

- Q.4 Explain principle , construction and working of calendering process.
- Q.5 Explain different components of tyre with neat sketch and their function.
- Q.6 Define hand made hose. Explain their advantages and disadvantages.
- Q.7 Define compression molding. Explain with neat sketch its working.

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**6th Sem. / Rubber Tech.**

**Subject : Rubber Processing Techniques-III**

Time : 3 Hrs.

M.M. : 100

**SECTION-A**

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

- Q.1 a) Define Curing.  
b) Define Resin.  
c) Define Rubber.  
d) Define Insulation.  
e) Define Foam.  
f) Define Seal.  
g) Define Casting.  
h) Define Printing.  
i) Define Calender.  
j) Define Belt.

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- k) Define Cycle time.
- l) Expand DVP.
- m) Define Latex thread.
- n) Define die swell.
- o) Define L/O ratio.
- p) Name two materials used for making tyre.
- q) Name two materials used for making balloons.
- r) Define sheet.

### SECTION-B

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

- Q.2
- i) Write a short note on truck tyre.
  - ii) Write a short note on tyre building.
  - iii) Write a short note on Timing Belt.
  - iv) Explain micro cellular role in short.
  - v) Explain, how balloon is made.

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- vi) Explain with neat sketch L-Calender.
- vii) Explain hot stamping with neat sketch.
- viii) Write a short note on casting of Poly butyl rubber.
- ix) Explain procedure for making cycle tyre.
- x) Explain procedure for making carpet backing.
- xi) Write a short note on engine mounting.
- xii) Write a short note on gravure printing.
- xiii) Write a short note on coated fabric.
- xiv) Explain material selection procedure for hose.
- xv) Write a short note on rubber roller.

### SECTION-C

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

- Q.3 Explain principle , construction and working of an extruder.

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