

## SECTION-D

**Note:** Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Explain various methods used to determine the processability of rubber mix and their application in process control.

Q.34 Explain principle and types of extruders with the help of neat sketch.

Q.35 Write short note on:-

(a) Trouble shooting calendering process.

(b) Extruder head construction

Q.36 Discuss.

a) Handling and weighing/batching systems

b) Skim coating and shooting process.

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## 4th Sem. / RUBBER TECHNOLOGY

### Subject : RUBBER PROCESSING TECHNIQUES-I

Time : 3 Hrs.

M.M. : 100

## SECTION-A

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.1 Give structure of 1,3-poly butadiene rubber.

Q.2 Name the acid used for storage of latex.

Q.3 Tg value for poly butadiene rubber is \_\_\_\_\_ °C.

Q.4 Give two applications of silicone rubber,

Q.5 Name two ancillary equipments used in extrusion process.

Q.6 What LCM?

Q.7 Expand FIFO.

Q.8 Name two different types of rubber extruders.

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Q.9 Name one trouble shooting of extrusion process.

Q.10 Define latex.

### SECTION-B

**Note:**Very Short answer type questions. Attempt any ten questions out of twelve questions(10x2=20)

Q.11 Define storage life of rubber material.

Q.12 What is RSS?

Q.13 Define mooney viscosity?

Q.14 Name two Rheometers used in rubber processing.

Q.15 What is sizing equipment?

Q.16 State function of roll floating?

Q.17 Name two types of calendering process.

Q.18 Give function of spreading process.

Q.19 State any one application, Where IR cure of vulcanization is used.

Q.20 Give two equipments used in rubber mix.

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Q.21 Define compression set.

Q.22 What is cold feed?

### SECTION-C

**Note:**Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

Q.23 Define Rapid plastic meter.

Q.24 Explain die-swell and its control.

Q.25 Discuss limitations and usefulness of spreading process.

Q.26 Explain Roto cure and electron beam vulcanization process.

Q.27 Discuss skim coating and sheeting.

Q.28 Discuss trouble shooting of extruder operation.

Q.29 Compare hot feed & cold feed.

Q.30 State function & layout of ancillary equipments (any one)

Q.31 Explain LCM process for industrial applications

Q.32 What is dipping process? Explain its importance.

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