

Subject Code: 2172604

Date: 03/12/2019

Subject Name: Rubber Products Manufacturing

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1 Answer the following

- (a) "Butyl Rubber is used for manufacturing of Pharmaceutical Closures." Justify the statement. (03)
- (b) Which Points should be taken into consideration in the Dock Fender selection Procedure? (04)
- (c) Explain in detail about the Principles of Damping. (07)

Q.2 Answer the following.

- (a) Define the term Cellular Rubber. Give the classification of Cellular Rubber. (03)
- (b) Which Points should be kept in mind while compound design for Slipper Sole? (04)
- (c) List the applications of rubber in Defense field. (07)

OR

- (c) List the applications of rubber in Sports & Automobile Engineering field. (07)

Q.3 (a) State three major application of Ebonite Rubber. (03)

- (b) Discuss in detail about selection of Rubbers for oil seals. (04)
- (c) Write in detail about manufacturing process of Conventional Golf Ball. (07)

OR

Q.3 (a) State the difference between NR Ebonite & SBR Ebonite Rubber. (03)

- (b) Describe the manufacturing of Seals by Extrusion Process. (04)
- (c) Discuss in detail about manufacturing of Ebonite Rod. (07)

Q.4 (a) Which Properties should be considered while compound design for Hot Water Bottle? (03)

- (b) Write the finishing process for Rubber Rollers. (04)
- (c) Discuss the manufacturing process of Surgical Tubing. (07)

OR

Q.4 (a) Why rubber should be used for manufacturing of Hospital sheet? List the problems occurred during manufacturing of Hospital sheet. (03)

- (b) Why Tank Lining is required? Write the compound design for Lining of Tank. (04)
- (c) How Cores for Rubber Rollers can be prepared for Bonding Procedure? Describe about the Bonding methods for Manufacturing of Rubber Rollers. (07)

Q.5 (a) Which Polymers are used for manufacturing of Printing Blanket? Why? (03)

- (b) Write about the different forms of conductors used for manufacturing of Cable. (04)
- (c) Short note on Crosslinkable Polyethylene material used for Power Cable. (07)

OR

Q.5 (a) List the applications of Printing Blanket. (03)

- (b) Justify the importance of Semiconducting shield for Cable design. (04)
- (c) Write about dough preparation, solvent recovery and curing process for manufacturing of Printing Blanket. (07)
