

Q.24 Explain Hydraulic system, Components of Hydraulic System with block diagram.

Q.25 Explain injection molding machine parts, how to do their maintenance.

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**6th Sem.
Branch : Plastic Technology
Sub.: Maintenance of Plastic Processing Machines**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

Q.1 Maintenance consists of the following actions

- a) Replacement of components
- b) Repair of components
- c) Service of components
- d) All of these

Q.2 _____ maintenance is regular period planned maintenance, which eliminates breakdowns and outages.

- a) Routine
- b) Preventive
- c) Corrective
- d) Operation

Q.3 What type of maintenance is most effective?

- a) Preventive maintenance
- b) Corrective maintenance
- c) Breakdown maintenance
- d) Shutdown maintenance

- Q.4 Which of the following is an advantages of Planed Maintenance?
- It decreases accuracy of instruments
 - It increases life of instruments
 - It decreases plant safety
 - It decreases life on an instruments
- Q.5 Thermocouple is _____ device.
- Mechanical
 - Electrical
 - Chemical
 - None of these
- Q.6 Preventive maintenance and its application are an expensive process.
- True
 - False

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 Define maintenance.
- Q.8 Give two uses of belts.
- Q.9 Name any two gears used in plastic industry.
- Q.10 Define Relays.
- Q.11 Define Pump.
- Q.12 Write the full form of MCB.

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. $(8 \times 4 = 32)$

- Q.13 Explain the function of limit switch in injection molding machine.
- Q.14 Explain Preventive maintenance and benefits of preventive maintenance.
- Q.15 What are the steps for Plastic molding machinery Installation process.
- Q.16 Draw the sketch of relay and give their uses.
- Q.17 Explain the Slip ring Induction motor with neat sketch.
- Q.18 Explain Band heater with a sketch.
- Q.19 Define thermocouple principle and its working.
- Q.20 What is alignment, what are the benefits of machine alignment.
- Q.21 Explain various parts of reciprocation pump.
- Q.22 Explain in detail solenoid valve and its uses.

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. $(2 \times 8 = 16)$

- Q.23 Write a short note on (a) Breakdown maintenance (b) Functions of actuators.