

**ALPHA COLLEGE OF ENGINEERING & TECHNOLOGY**  
**DEPARTMENT OF DIPLOMA MECHANICAL ENGINEERING**

**FAQ OF PMS**

**Fundamentals of maintenance engineering**

- Q.1** Define maintenance. List different types of maintenance and explain in brief predictive maintenance and corrective Maintenance.
- Q.2** List different methods use in selection of replacement. Explain briefly explain briefly 'MAPI' method as used in replacement Decision.
- Q.3** State the aims of maintenance department.
- Q.4** Explain the term maintenance and state the primary and Secondary functions of maintenance department.
- Q.5** Define the term maintenance cost and state the factors affecting maintenance cost.

**Wear and Corrosion and their prevention**

- Q.6** Define wear. List different types of wear. Explain the Effects of different types of wear on performance.
- Q.7** State the causes & remedies of wear.
- Q.8** List methods of wear detection.
- Q.9** List and explain various methods for reducing wear.
- Q.10** Explain lubricant type and application.
- Q.11** List of Lubricant Method and explain any two.
- Q.12** List basic & secondary methods of corrosion prevention. Explain in brief any two basic methods.
  
- Q.13** Define corrosion. Explain (1) Pitting corrosion  
(2) Galvanic corrosion
- Q.14** What is corrosion? List the factors affecting corrosion.

## **Fault tracing**

- Q.15** What is decision tree? List the steps involved in preparing a decision tree.
- Q.16** Define fault tracing and write down activates of fault tracing.
- Q.17** Draw a decision tree for the fault “lathe chuck stops revolving.”
- Q.18** Prepare a decision tree to locate fault when a centrifugal pump does not deliver water.

## **Periodic and preventive maintenance**

- Q.19** Give difference of preventive maintenance and Breakdown maintenance.
- Q.20** Explain needs of preventive maintenance in industry and advantages Of preventive maintenance.
- Q.21** Describe procedure of periodic inspection.
- Q.22** Define repair cycle. State the stages involved in repair cycle.
- Q.23** Define scheduling of maintenance activities and list the factors to be Considering when planning Maintenance activities.

## **Industrial safety**

- Q.24** state the function & responsibilities of safety inspector.
- Q.25** List the common causes of industrial accident and state factors to control it.
- Q.26** Classify types of accident and explain any one.
- Q.27** Explain Safety color code.
- Q.28** Explain Methods of Safe Guarding Machines and Equipments.

## **Recovery, reconditioning and retrofitting**

- Q.29** Define the term erection and list the equipments used in erection work.
- Q.30** Define the term foundation and explain how a good Foundation eliminates vibration problems.
- Q.31** Define the term recovery. State the advantages of metal Spraying over other recovery methods.
- Q.32** Explain application of Retrofitting.
- Q.33** Explain the reconditioning and retrofitting of machine tools.

## **INSTALLATION,ERECTION AND COMMISSIONING OF EQUIPMENTS**

- Q.34** Defination of foundation and effects of foundation.
- Q.35** Explain foundation materials and foundation size and plan.
- Q.36** Foundation of high speed machine and Foundation of Centrifugal pump.
- Q.37** Foundation of Boilers and Foundation of bolts.
- Q.38** What is Erection.Give use of Erection Equipments.
- Q.39** Defination of Grounting.Explain Grounting Procedure.
- Q.40** Explain Alignment procedure.
- Q.41** Acceptance test chart for Equipments.