

MAINTENANCE ENGINEERING & MANAGEMENT

QUESTION BANK

PART-A

1. What is meant by maintenance planning
2. What are the objectives of maintenance
3. What are the principles of planned maintenance activity
4. What are the benefits of sound maintenance system
5. Define machine availability
6. What are the factors for availability?
7. Give the types of maintenance organization
8. What are the sources of maintenance cost?
9. What is meant by MTBF and MTTR
10. Define Reliability.

11. What are the types of maintenance?
12. Differentiate brake down and preventive maintenance.
13. Give the merits of condition based maintenance.
14. What is meant by Give routine maintenance
15. List the purpose of lubrication
16. What is meant by maintenance schedule
17. Explain repair cycle
18. What is TPM? Give the benefits
19. Give the eight pillars of TPM
20. What is meant by risk based maintenance.

PART-B

1. What do you understand by maintenance categories? Explain common types and explain the basis of their selection.
2. What are all the steps involved in preventive maintenance why preventive maintenance is better than reactive maintenance.
3. Distinguish between fixed time maintenance and connect based maintenance. Give the merits and demerits.
4. Briefly explain the procedure for TPM.
5. What is condition monitoring and explain condition monitoring and what type of condition monitoring are normally used in industry
6. What is leakage monitoring ? Explain some of the leakage mediums used for condition monitoring
7. Briefly explain the cost comparison with and without condition monitoring

QUESTION BANK

Q1. Enumerate the specific objectives of maintenance in an organization. How is preventive maintenance better than corrective maintenance?

Q2. Do maintenance management principles have relevance in the service industry ?

Q3. What do you understand by break down maintenance ? Discuss the various features of breakdown maintenance management ?

Q4. How is preventive maintenance different from break down maintenance ?

Q5. What is the need for better maintenance ? What are the elements of maintenance planning ?

Q6. What are the responsibilities of maintenance planning and scheduling ?

Q7. What do you understand by the term 'Total Productive Maintenance' ? What are the main features of Total Productive Maintenance ?

Q8. (a). State and briefly describe the dimensions of quality.

(b). What are the costs of quality? Explain each component of cost of quality

Q9. Explain the followings:

(A). Types of gauges. (B). Non-Destructive Testing and Evaluation

Q10. Write short notes on:

a. Statistical Quality control

b. What are the basic elements of reliability? Explain the importance of reliability?

Q11(a). Write short notes on (1) MTTR (2) MTBF

(b). briefly explain about the sampling plans (types) and variables?

Q12. Explain the following in connection with quality:

(A). TQM (B) ISO-9000 (C) Six Sigma Concepts.