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6th Sem / Branch : Mech, Mechatronics, GE, CAD/CAM, Mech., Engg. (Fabrication Technology
Sub. : Installation, Testing & Maintenance

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 What are the factors that influence the reliability and maintainability of machines?
a) Surface degradation
b) Frequency of machine usage
c) The life span of the machine
d) Obsolescence

Q.2 What are the main objectives of adopting preventive maintenance?
a) To reduce machine breakdowns
b) To increase machine breakdowns
c) To slash productivity
d) To reduce absenteeism

Q.3 The down time cost consists of?
a) Loss of production
b) Wages paid to the workers
c) reduction in sales d) All of the above

Q.4 Which lifting devices are used for loading and unloading?
a) Rope pulley b) Chain pulley

c) Power pulley d) All of these

Q.5 When inspection at the site is carried out?
a) After installation b) After commissioning
c) After unloading d) After testing

Q.6 Which one is the task in preventive maintenance?
a) Automation b) Lubrication
c) Machine breakdown d) Condition monitoring

Q.7 A type of preventive maintenance wherein maintenance work is performed at regular time intervals is called:
a) Time based preventive maintenance
b) Work based preventive maintenance
c) Opportunity based preventive maintenance
d) Condition based preventive maintenance

Q.8 Which one of the following tests in carried out after over hauling and reconditioning of machine?
a) Geometrical test only b) Performance test only
c) Periodic acceptance test
d) None of the above

Q.9 preventive maintenance is _____.
a) The overall lubrication and repair work carried out by the maintenance section in advance of the machine coming to breakdown.
b) The maintenance work for any fault noticed during the work.
c) Done to prevent the maintenance of machine
d) None of the above

Q.10 Equipment history cards are meant to record_____
a) The way equipment behaves

b) Total down time of the equipment

c) The rate at which different components wear off

d) All of the above

SECTION-B

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

Q.11 Reliability is a measure of how quality changes over time. (True/False)

Q.12 The quantitative measure of maintainability is _____ (downtime/ mean time to repair)

Q.13 What is full form of FIFO?

Q.14 The Equipment downtime is decreased and the number of major repairs is reduced due to _____ maintenance.

Q.15 Casual maintenance of a machine is called_____. (Preventive/unscheduled maintenance)

Q.16 Define availability.

Q.17 Write any two parts which requires frequent repair and maintenance to avoid down time.

Q.18 Which metal is generally used for vibration isolation?

Q.19 Why is maintenance of a machine necessary?

Q.20 Write any two types of machine Foundation.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Write the important factors to be considered in maintenance planning.

Q.22 Define reliability, availability and maintainability.

Q.23 What is maintenance? Write its main purposes.

Q.24 Describe positioning of Machines.

Q.25 Write the general procedure of machine installation.

Q.26 What is grouting. Explain.

Q.27 Define foundation of Machines. Explain its types.

Q.28 Differentiate between levelling and alignment.

Q.29 What is the difference between vibration isolation and vibration tempting.

Q.30 Define fit. Explain system of fits.

Q.31 Explain the recalibration of measuring instrument.

Q.32 Write short note on overhauling of machine and equipment.

Q.33 Write the necessity of repair and maintenance.

Q.34 Differentiate between preventive and predictive maintenance.

Q.35 Define vibration isolation. Write its various methods.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Define maintenance organization. Also explain centralized and decentralized maintenance organization.

Q.37 Write the general procedure for testing alignment and performance of Machines.

Q.38 Define computerization of maintenance. Write the advantages of computerized maintenance management system.