Q.26 Define vibration isolation. Write its various methods.
Q.27 Define foundation of Machines. Explain its types.
Q.28 Explain the speed testing of machines.
Q.29 Write short note on frequent maintenance of parts such a belts, coupling, nut and bolts.
Q.30 Differentiate between levelling and alignment.
Q.31 Briefly explain history cards of different machines.
Q.32 Describe maintenance schedule.
Q.33 Differentiate between preventive and predictive maintenance.
Q.34 Explain manpower planning and materials management.
Q.35 Write short note on overhauling of machine and equipment.

SECTION-D

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

Q.36 What are the causes of failure of common parts. Also write their remedial measures.
Q.37 Define maintenance organization. Also explain centralized and decentralized maintenance organization.
Q.38 Explain reliability, availability and maintainability.

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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 Which of the following is/are basic requirements of foundation?
a) Horizontal levelling
b) Rigidity
c) Freedom from vibration
d) All of the above

Q.2 Pulley system is combination of several _____ pulleys.
a) Moveable and fixed b) Moveable only
c) Fixed only d) Chain only

Q.3 Which tools are necessary for alignment?
a) Spirit level b) Try square
c) Screw driver d) (a) and (b)

Q.4 The main aim of _____ is to check that the machine received is in good condition and are as per our requirements?
a) Commissioning b) Installation
c) Testing d) Inspection

Q.5 Which one is the task in preventive maintenance?

a) Automation b) Lubrication

c) Machine breakdown d) Condition monitoring

Q.6 The reliability of the entire system is called?

a) Partial reliability b) Isolated reliability

c) Closed reliability d) System reliability

Q.7 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.8 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

Q.9 If the belt of an electric motor breaks, it needs_____

a) Preventive maintenance

b) Corrective maintenance

c) Scheduled maintenance

d) Timely maintenance

Q.10 The maintenance consists of the following actions:

a) Replace of components

b) Repair of components

c) Service of components

d) All of the above

SECTION-B

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

Q.11 The reliability of the entire system is called____?

Q.12 Define availability.

Q.13 Write any two parts which requires frequent repair and maintenance to avoid down time.

Q.14 Expand B-T curve.

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

Q.16 Why is maintenance of a machine necessary?

Q.17 The quantitative measure of maintainability is _____. (downtime/mean time to repair)

Q.18 Two Instruments used in alignment test are _____and_____.

Q.19 What is full form of FIFO?

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 Describe layout and positioning of Machines.

Q.22 Write short note on maintenance planning.

Q.23 Explain inspection of machines and equipment.

Q.24 Define tolerance. Also write its types.

Q.25 Write the advantages and disadvantages of maintenance.