

Q.17 Explain :

- a) Reliability
- b) Mean time Between Failure

Q.18 Discuss the purpose of machine history card.

Q.19 Explain in brief methods of vibrations Isolation

Q.20 Explain cannibalism.

Q.21 Discuss manual system of lubrication.

Q.22 Mention the characteristics of unit load.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Differentiate between product layout and process layout.

Q.24 Explain the causes of failure of gears and their remedial measures.

Q.25 Explain Automated Guided Vehicles (AGVs) and their applications.

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5th Sem / Mechanical Engg.

Subject : Plant Maintenance & Material Handling

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following is the Primary objective of machine foundation?

- a) To enhance the appearance of machine
- b) To minimize the weight of the machine
- c) To prevent resonance due to dynamic forces
- d) To increase the operational speed

Q.2 What is the purpose of shaft alignment in machine installation?

- a) To ensure the machine is aesthetically pleasing
- b) To minimize wear and tear on rotating components
- c) To increase the machine's power output
- d) To reduce the machine's operating temperature

Q.3 Which of the following is NOT a function of a Lubricant?

- a) Reducing friction
- b) Removing heat
- c) Separating moving parts
- d) Increasing wear

Q.4 What is the primary purpose of material handling?

- a) To increase production costs
- b) To move, store, protect, and control material
- c) To decrease efficiency
- d) To limit the use of technology

Q.5 Which of the following is NOT a key factor in spare parts provisioning?

- a) Demand forecasting
- b) Lead time management
- c) Inventory turnover
- d) Production scheduling

Q.6 The process of examining of the performance of an item critically is known as:

- a) Maintenance
- b) Repair
- c) Testing
- d) None of the above

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SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define Maintenance.

Q.8 Define Material Management

Q.9 Mention two common instruments required for testing.

Q.10 Full form of ASRS is _____.

Q.11 Full form of MTTR is _____.

Q.12 Define Spare part.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Mention two advantages of testing and two advantages repair?

Q.14 Explain B-T curve with diagram.

Q.15 Describe Product Layout. Mention its two advantages.

Q.16 Explain any one type of foundation bolt with the help of a neat sketch.

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