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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 A \_\_\_\_\_ crane in lifting machine generally equipped with a wire rope drum that can be used to lift and lower materials and move them horizontally.
- a) Crane                      b) Elevator  
c) Hoists                      d) Conveyors
- Q.2 \_\_\_\_\_ is a phenomenon in which friction between moving surface is reduced by thin a layer of substance is called lubricant.
- a) Lubrication              b) Friction  
c) Force                      d) None of the above
- Q.3 \_\_\_\_\_ is the process of critical examination of the performance of an item.
- a) Repair                      b) Testing  
c) Maintenance              d) None of the above

- Q.4 If all the processing equipment and machines are arranged according to the sequence of operations of a product the layout is known as \_\_\_\_\_.

a) Product layout              b) Process layout  
c) Fixed position layout      d) Combination layout

- Q.5 Principle of 'Unit Load' states that

a) Material should be moved in lots  
b) One unit should be moved at a time  
c) Both A & B  
d) None of the above

- Q.6 Periodic lubrication charts are used to \_\_\_\_\_.

a) Keep the record of maintenance of machine  
b) Keep the record of repair of machine  
c) Keep the record of lubricant of machine  
d) None of the above

**SECTION-B**

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

- Q.7 Name different types of foundation bolts.
- Q.8 Define mechanical handling equipment.

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- Q.9 Name common instrument required for testing.
- Q.10 What is corrective maintenance?
- Q.11 Define plant layout.
- Q.12 Define cannibalism.

### SECTION-C

**Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)**

- Q.13 Write four advantages of unit load.
- Q.14 Explain thick film lubrication with a neat sketch.
- Q.15 Give the classification of spares. Explain briefly.
- Q.16 Define maintainability and reliability.
- Q.17 Write four advantages of a machine history card.
- Q.18 Write a short note on noise resistance test.
- Q.19 Write four objective of material management.
- Q.20 Write the procedure for re-calibration of vernier calipers.
- Q.21 Explain pump system of lubrication.
- Q.22 Write any four necessity of testing, repair and maintenance.

### SECTION-D

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

- Q.23 Write the causes of failure of seal, packing and gaskets and their remedial measures.
- Q.24 Explain different types of plant layout with their neat sketch.
- Q.25 Explain the principles of economic material handling.