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Roll No.

221753B

5th Sem / Mechanical Engg.

Subject : Plant Maintenance and Material Handling

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(6 \times 1 = 6)$

Q.1 _____ is the process of restoring the machine to good working condition after damage or wear,

- a) Testing
- b) Repair
- c) Maintenance
- d) None of these

Q.2 Product layout is also called _____ layout.

- a) Process
- b) Flow line layout
- c) Fixed
- d) Combined

Q.3 In ship manufacturing, the type of layout preferred is

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

Q.4 _____ test is used for checking the accuracy of work done on the machine.

- a) Geometrical test
- b) Performance test
- c) Testing under load
- d) Idle run test

Q.5 From the following is not a foundation bolt

- a) Eye bolt
- b) Rag bolt
- c) Lewis bolt
- d) Screw jack

Q.6 _____ is a horizontal portable platform device used as a base for handling materials in a unit load.

- a) AGVs
- b) Pallet
- c) Automated storage system
- d) None of the above

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory $(6 \times 1 = 6)$

Q.7 _____ is used to check the level of lubricant oil.

Q.8 What do you mean by grouting?

Q.9 Define Spare Parts.

(1)

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(2)

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Q.10 Name methods of lubricant used in different manufacturing operations.

Q.11 What is Repair?

Q.12 What is Scheduled maintenance?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

Q.13 Write four characteristics of a unit load.

Q.14 Draw B-T curve and explain in brief.

Q.15 Write a short note on the idle run test.

Q.16 Explain thin film lubrication with neat sketch.

Q.17 Explain mean time between failures (MTBF) and mean time to failure (MTTF).

Q.18 Write four objectives of spare part management.

Q.19 Write four objectives of an automated storage system.

Q.20 Write a short note on Vibration Isolation methods.

Q.21 Write four objectives of manpower planning.

Q.22 Write four goals of total productive maintenance (TPM)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

Q.23 What is maintenance? What are its different types ? Explain briefly.

Q.24 Explain the principles of a good plant layout.

Q.25 Write the causes of failure of gear and their remedial measures.