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6th Sem / Mech.
Subject:- Plant Maintenance and Material Handling

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 The difference between the maximum and minimum permissible limits of the sizes is called ____ (CO1)

- a) Deviation b) Allowance
- c) Tolerance d) Actual deviation

Q.2 In ship manufacturing, the type of layout preferred is (CO2)

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

Q.3 Which of the following is alignment testing equipment? (CO3)

- a) Straight edge b) Rope and chain
- c) Micrometer d) None of the above

Q.4 _____ is a structure, which supports the load of equipment and building. (CO2)

- a) Grouting b) Foundation
- c) Building d) Layout

Q.5 Most parts and materials that are used for _____ maintenance are well known and can be identified in advance (CO4)

- a) Corrective b) Preventive
- c) Predictive

Q.6 The most important quality of any lubricant is (CO4)

- a) Specific heat b) Specific gravity
- c) Viscosity d) Emulsification

Q.7 The best example for gravity feed lubrication is (CO5)

- a) Grease gun b) Wick feed lubricator
- c) Pump lubricator d) Ring lubricator

Q.8 Fork Lift Truck is used for (CO5)

- a) lifting and lowering
- b) Vertical transportation
- c) both a and b
- d) none of the above

Q.9 Maintenance consist of the following actions(s) (CO1)

- a) Replace of component
- b) Repair of component
- c) Service of component
- d) All of the above

Q.10 Equipment history cards are meant to record. (CO4)

- 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 Name any two types of fits. (CO1)
Q.12 Define plant location. (CO2)
Q.13 What is lubrication. (CO2)
Q.14 Define preventive maintenance. (CO3)
Q.15 Expand the term MTTR. (CO1)
Q.16 Write any two causes of failure of belts. (CO3)
Q.17 Name methods of lubrication used in different manufacturing operations. (CO4)
Q.18 Write the two objectives of material handling. (CO5)
Q.19 Name the type of mechanical handling equipments. (CO5)
Q.20 Define Pallet. (CO5)

SECTION-C

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

- Q.21 Draw B-T curve and explain briefly. (CO1)
Q.22 Explain briefly the objectives of manpower planning. (CO1)
Q.23 Write the functions of the following (CO3)
 i) mandrel ii) Spirit Level
Q.24 Classify maintenance. (CO4)
Q.25 Write objectives of spare parts management. (CO5)

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- Q.26 Write the causes of failure of gears. (CO4)
Q.27 Write short note on lubricant disposal. (CO5)
Q.28 Explain thin film lubrication. (CO4)
Q.29 Explain any two principles of economic material handling. (CO5)
Q.30 Explain automated guided vehicles. (CO5)
Q.31 Explain the procedure of changing lubricating oils periodically. (CO5)
Q.32 What is product layout? (CO2)
Q.33 Explain any five terms related to dimensional tolerance with the help of neat sketch. (CO1)
Q.34 Explain machine history card. (CO4)
Q.35 Explain vibration isolation methods. (CO3)

SECTION-D

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

- Q.36 Classify machine foundation. Explain in brief. (CO1)
Q.37 Explain storing and handling of lubricants. (CO5)
Q.38 Explain the various alignments tests which are conducted on lathe. (CO3)

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