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Roll No.

6th Sem / Branch : Mechanical Engineering
Sub. : Plant Maintenance & Material Handling

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 _____ is the process of critical examination of the performance of an item. (CO1)
- a) Repair b) Testing
c) Maintenance d) All of the above
- Q.2 If all the processing equipment machines are arranged according to the nature or type of the operations, the layout is known as (CO2)
- a) Product layout b) Process layout
c) Fixed position layout d) Combination layout
- Q.3 The relation between mating parts is called _____. (CO3)
- a) Connection b) Fits
c) Joints d) Link
- Q.4 The following is not a classification of maintenance (CO5)
- a) Corrective Maintenance
b) Scheduled Maintenance

- c) Timely Maintenance
d) Preventive Maintenance
- Q.5 Principle of 'Unit Load' states that (CO1)
- a) Materials should be moved in lots
b) One unit should be moved at a time
c) Both (a) and (b)
d) None of the above
- Q.6 The down time cost consists of (CO5)
- a) Loss of production
b) Wages paid to the workers
c) Reduction in sales
d) All of the above
- Q.7 Which one of the following tests is carried out after overhauling and reconditioning of machines?(CO4)
- a) Periodic acceptance test
b) Geometrical test only
c) Performance test only
d) All of the above
- Q.8 The best example for splash lubrication is (CO4)
- a) Grease gun b) Wick feed lubricator
c) Pump lubricator d) Ring lubricator
- Q.9 Which of the following is not a hoisting equipment? (CO5)
- a) Lift b) Jack
c) Conveyor d) Truck

- Q.10 Material handling equipments are used to transfer material in _____ direction. (CO2)
- a) Horizontal b) Vertical
- c) Inclined d) All of the above

SECTION-B

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

- Q.11 What is Testing? (CO1)
- Q.12 Define transition Fit. (CO1)
- Q.13 Name different types of plant layout? (CO2)
- Q.14 Define Lewis bolt. (CO2)
- Q.15 Write the function of dial gauge. (CO3)
- Q.16 Explain MTTR. (CO4)
- Q.17 Define vibration damping. (CO3)
- Q.18 _____ is used to check the level of lubricating oil. (CO4)
- Q.19 Define pallet. (CO5)
- Q.20 What is a transporting device? (CO5)

SECTION-C

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

- Q.21 Write the advantages of repair. (CO1)
- Q.22 How are tolerance represented? Explain. (CO1)
- Q.23 What is fixed position layout? (CO2)
- Q.24 Explain the type of foundation according to structure. (CO2)

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- Q.25 Explain mean time between failure (MTBF) (CO3)
- Q.26 Explain the repair and maintenance of coupling. (CO4)
- Q.27 Write the functions of lubrication. (CO4)
- Q.28 Explain thick film lubrication. (CO4)
- Q.29 What is material handling? Explain its importance. (CO5)
- Q.30 Write the procedure of recalibration of vernier caliper. (CO1)
- Q.31 Write short note on routine maintenance. (CO3)
- Q.32 Explain the principles of good plant layout. (CO2)
- Q.33 Explain vibration isolation methods. (CO1)
- Q.34 Define maintenance organization and give its classification. (CO3)
- Q.35 Write the functions of material handling. (CO5)

SECTION-D

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

- Q.36 Explain in detail the repair and maintenance of boilers. (CO3)
- Q.37 Explain the various types of material handling equipments. (CO5)
- Q.38 Explain the various types of plant layouts. (CO2)

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