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# **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 handing 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 thik 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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