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Roll No. ....

**6<sup>th</sup> 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 \_\_\_\_\_ maintenance is regular period planned maintenance which eliminates breakdowns & outages.
- a) Routine                      b) Preventive  
c) Corrective                d) Operation
- Q.2 With the increase in cost of preventive maintenance, the breakdown maintenance cost will \_\_\_\_\_
- a) Decreases                b) Increase at faster rate  
c) No change                d) Increases
- Q.3 What type of maintenance is most effective?
- a) Shutdown maintenance  
b) Corrective maintenance  
c) Breakdown maintenance  
d) Preventing maintenance

- Q.4 Material handling consists of movement of material from
- a) One machine to another  
b) One shop to another shop  
c) Store to shop  
d) All of these
- Q.5 \_\_\_\_\_ are the basic materials which have not undergone any conversion since their receipt from supplier .
- a) Work in progress      b) Raw material  
c) Finished parts        d) Work made parts
- Q.6 Material management has an important role in --- management
- a) Production                b) Supply chain  
c) Operation                d) All of these
- Q.7 Which of the following industrial should be located near the vicinity of raw material ?
- a) Cycles                      b) Televisions  
c) Sewing mc                d) Steel mills
- Q.8 the following type of layout is preferred to manufacture a standard product in large quantity.
- a) Product layout        b) Process layout  
c) Fixed position layout d) Combination layout

- Q.9 The downtime cost consists of
- Loss of production
  - Reduction in sales
  - Wages paid to the workers
  - All of these
- Q.10 The first automated guides vehicle was developed in
- 1965
  - 1954
  - 1945
  - 1960

### SECTION-B

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

- Q.11 Define Tolerance
- Q.12 Define material management .
- Q.13 Upper deviation= Maximum limit of size-----.
- Q.14 Define the vibration damping.
- Q.15 Quick setting cement is used for grouting. (True/False)
- Q.16 Name any two testing instruments .
- Q.17 Define spare part.
- Q.18 What is use of seal ?
- Q.19 What is the use of key.
- Q.20 What is an elevator ?

### SECTION-C

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

- Q.21 What are the advantages of maintenance ?

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- Q.22 Draw B-T curve .
- Q.23 Write the objectives of material management .
- Q.24 Write a short note on foundation plan.
- Q.25 Write a short note on vibration resistance test.
- Q.26 Write the procedure for recalibration of micrometer.
- Q.27 Write the purpose of machine history card .
- Q.28 What are the causes of failure of gears ?
- Q.29 Write the remedial measures of bearings.
- Q.30 Write a short note on automatic system of lubrication
- Q.31 What a purpose of changing lubricating oils.
- Q.32 Write the objectives of material handling .
- Q.33 Write a short note on mobile motor crane.
- Q.34 Define AGV's ? Also list few applications of AGV's
- Q.35 Write objectives of automated storage system.

### SECTION-D

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

- Q.36 Compare the product layout & process layout.
- Q.37 write the objectives & functions of maintenance .
- Q.38 Explain the different stages of repair & maintenance of compressor.

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