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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 Maintenance consists of the following action(s) (CO1)

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

Q.2 The time elapsed from the point the machine fails to perform its function to the point it is repaired and brought into operating condition is known as (CO1)
a) Down time b) Break Down time
c) Both a and b d) None of these

Q.3 Belt of an electric motor is broken, it needs (CO5)
a) Corrective maintenance
b) Scheduled maintenance
c) Preventive maintenance
d) Timely maintenance

Q.4 With the increase in preventive maintenance cost, breakdown maintenance cost (CO5)

- a) Increases
- b) Decreases
- c) Remain same
- d) Any of the above

Q.5 The following is (are) scheduled maintenance (CO5)

- a) Overhauling of machine
- b) Cleaning of tank
- c) Whitewashing of building
- d) All of the above

Q.6 Which of the following facility layout is best suited for the intermittent type of production, which is a method of manufacturing several different products using the same production line? (CO2)

- a) Process layout
- b) Cellular manufacturing layout
- c) Fixed position layout
- d) Product layout

Q.7 In the hole and shaft pair designation of 40 H7/d9, the numbers 7 and 9 indicates (CO2)

- a) Tolerance grade
- b) Accuracy of manufacture
- c) Ease of assembly
- d) None of the above

Q.8 Total Productive maintenance approach has the potential of providing almost a seamless integration between (CO1)

- a) Production and Quality
- b) Quality and Maintenance
- c) Production and Maintenance
- d) All of the above

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Q.9 In a shaft basis system, upper deviation of the size of shaft is _____ (CO2)

- a) One
- b) Not related to size
- c) less than zero
- d) Zero

Q.10 Material handling consists of movement of material from (CO5)

- a) one machine to another
- b) one shop to another shop
- c) Stores to shop
- d) All of the above

SECTION-B

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

Q.11 Define actual size (CO2)

Q.12 What is deviation? (CO2)

Q.13 Give an example of running fit. (CO2)

Q.14 Give example of industries where fixed layout is used. (CO3)

Q.15 Name any two foundation bolts. (CO2)

Q.16 Define grouting. (CO2)

Q.17 What is the use of spirit level? (CO3)

Q.18 Elaborate MTBF (CO1)

Q.19 Give example of scheduled maintenance. (CO5)

Q.20 Write the use of fork lift truck. (CO5)

SECTION-C

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

Q.21 State advantage of repair. (CO1)

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Q.22 What are the basic elements of manpower planning? (CO1)

Q.23 Define material management. (CO5)

Q.24 Write a short note on interchangeability. (CO3)

Q.25 Write short note on fixed position layout. (CO5)

Q.26 How do you plan a foundation for milling machine? (CO2)

Q.27 Write the methods of vibration damping. (CO2)

Q.28 Write the concepts of machinability. (CO3)

Q.29 Write the procedure for recalibration of vernier calliper. (CO2)

Q.30 Write short note on unplanned maintenance. (CO5)

Q.31 Discuss advantages of breakdown maintenance. (CO5)

Q.32 What remedial measures you will suggest to prevent the failure of seals, packing and gaskets? (CO4)

Q.33 Explain annual schedule for replacement of lubricating oil with suitable example. (CO4)

Q.34 Explain roller conveyor. (CO5)

Q.35 Write short note on automated storage and retrieval system. (CO5)

SECTION-D

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

Q.36 What is material handling. Explain AGV's (CO1)

Q.37 Define corrective maintenance. Write its stages, its advantages and disadvantages. (CO5)

Q.38 Discuss any three types of plant layouts. (CO2)

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