Code No: R20DME52

**R20**

# MALLA REDDY COLLEGE OF ENGINEERING & TECHNOL

**(Autonomous Institution – UGC, Govt. of India)**

## M.Tech II Year I Semester Supplementary Examinations, November 2022

**Industrial Safety**

**(MD)**

| Roll No | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|

**Time: 3 hours** **Max. Marks: 70**

Answer Any **Five** Questions
All Questions carries equal marks.

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**1** Explain the role of Industrial Psychology in the prevention of accidents. **[14M]**

**2** Discuss in brief the role of the Employees State Insurance (ESI) Act for Industrial Safety. **[14M]**

**3** Describe personal fire protective equipment, its need, and selection criteria. **[14M]**

**4** List six common protection features for chemical process plants and describe when they would be appropriate. **[14M]**

**5** Give the need for precautions to be taken against Electrical hazards. Explain it in detail. **[14M]**

**6** How is good housekeeping the key to safety and good health? Explain. **[14M]**

**7** Discuss the various mechanical hazards in industries and the safety devices used. **[14M]**

**8** State and explain in brief

A. Static and mobile pressure rules **[7M]**

B. Motor vehicle rules **[7M]**

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Code No: R20D1517

**R20**

# MALLA REDDY COLLEGE OF ENGINEERING & TECHNO

**(Autonomous Institution – UGC, Govt. of India)**

**M.Tech II Year I Semester Supplementary Examinations, November 2022**

**Design for Manufacture Assembly and Environment**

**(MD)**

| Roll No | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|

**Time: 3 hours** **Max. Marks: 70**

Answer Any **Five** Questions
All Questions carries equal marks.

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|---|---|---|
| 1 | How tolerance influencing manufacturability? Explain features and geometric tolerance with examples. | **[14M]** |
| 2 | Describe with neat sketch about the manufacturing datum, functional datum and change in datum in DFM | **[14M]** |
| 3 | Discuss with neat sketches the recommendations for minimizing distortion in weld members. | **[14M]** |
| 4 | Elaborate design factors for form design of forging members with neat sketch. | **[14M]** |
| 5 | (a). Explain design for economy | **[7M]** |
| | (b). What is design for machinability? Explain. | **[7M]** |
| 6 | Explain simplification by separation and amalgamation. | **[14M]** |
| 7 | Explain computer applications for DFMA. | **[14M]** |
| 8 | Write short notes: | **[7M]** |
| | (a). Design for Assembly | **[7M]** |
| | (b). Design for recyclability | |

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