Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14ME2035** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INDUSTRIAL SAFETY ENGINEERING** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Define the term OSHA | CO1 | **2** |
| b. | List the factors to be considered during identifying the causes of injury | CO1 | **2** |
| c. | Explain the various responsibilities of principals in safety management | CO1 | **16** |
| **(OR)** | | | | |
| 2. | a. | Define the term “Trauma” | CO1 | **2** |
| b. | Write two difference between accidents vs injuries | CO1 | **2** |
| c. | Explain the various steps involved in Industrial safety efforts that have been referred to as the people safety program | CO1 | **16** |
| 3. | a. | Define the function of safety trip control | CO2 | **2** |
|  | b. | Explain the method of safeguarding in pullback device | CO2 | **2** |
|  | c. | List out the various methods used for safeguarding machines in an industry | CO2 | **16** |
| **(OR)** | | | | |
| 4. | a. | Explain in detail about safety requirements recommended in an industry for the use of Mechanical press by a safety department | CO2 | **20** |
| 5. | a. | Define the term MSDS | CO3 | **2** |
|  | b. | List out some of the common mechanical hazards faced by an worker | CO3 | **2** |
|  | c. | In detail explain the various Safety requirements recommended in an chemical industry for handling chemicals | CO3 | **16** |
| **(OR)** | | | | |
| 6. | a. | Explain the various safety principles to be followed during gas welding process and name some protective equipments used | CO3 | **20** |
| 7. | a. | Name the three health hazards undergone by labor in paint shop | CO4 | **2** |
|  | b. | Mention any two Problem solving skills of the furnace operator | CO4 | **2** |
|  | c. | Enumerate the safety responsibility to be followed in heat treatment process | CO4 | **16** |
| **(OR)** | | | | |
| 8. | a. | List any two safety principles to be followed during shot blasting process | CO4 | **4** |
|  | b. | Explain the various safety principles to be followed in a paint shop | CO4 | **16** |
|  | | **Compulsory:** |  |  |
| 9. | a. | Enumerete the various safety principles to be followed during electroplating process | CO4 | **10** |
|  | b. | Explain the different safety precautions followed during hydro testing | CO4 | **10** |

ALL THE BEST