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

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**End Semester Examination – Nov/Dec– 2018**

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| **Code :** | **14BT2052** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INDUSTRIAL SAFETY & HAZARD ANALYSIS** | **Max. marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course Outcome** | **Marks** |
| 1. | a. | State the definition of the hazard and explain how to identify hazards in the workplace? | CO1 | 10 |
| b. | Determine methods for controlling hazards in the workplace? | CO1 | 7 |
| c. | Define the term ‘Ergonomics’? | CO2 | 3 |
| (OR) | | | |  |
| 2. | a. | Explain the term Mitigation measures? | CO1 | 4 |
| b. | Write a brief note on types of hazards? | CO1 | 10 |
| c. | i) Expand the term LMRA used in occupational safety?  ii) Write on COSHH and specify its role in employee’s legal duty? | CO1 | 3+3 |
|  |  |  |  |  |
| 3. | a. | Write briefly about the basic requirements of a First Aid – Rescue program in institutions? | CO1 | 8 |
| b. | Comment on benefits of good housekeeping practices? | CO2 | 8 |
| c. | Define COMAH? | CO2 | 4 |
| (OR) | | | |  |
| 4. | a. | Classify the types of plant layout? | CO2 | 8 |
| b. | Write about the importance of plant layout? | CO2 | 5 |
| c. | What is plant layout? Why it is needed? | CO2 | 7 |
|  |  |  |  |  |
| 5. | a. | What is double insulation? | CO2 | 5 |
| b. | Write note on Neutral and PEN conductor? | CO2 | 5 |
| c. | Name the classes of standard protective earthing of electrical installations? | CO3 | 10 |
| (OR) | | | |  |
| 6. | a. | What is PPE? | CO3 | 3 |
| b. | Discuss about any four PPE safety design? | CO3 | 8 |
| c. | List any three eye protection aids for an exposed employee? | CO3 | 9 |
|  |  |  |  |  |
| 7. | a. | Disposal of wastes and effluents in factories? | CO3 | 10 |
| b. | Write a short note on Spittoons? | CO3 | 3 |
| c. | Explain about the distribution of Workmen’s compensation Act, 1943? | CO3 | 7 |
| (OR) | | | |  |
| 8. | a. | Describe the Employer's liability for compensation? | CO3 | 10 |
| b. | Brief about the benefits to insured employee? | CO3 | 7 |
| c. | Define E.S.I? | CO3 | 3 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Write a detailed account on child labour act, 1986? | CO3 | 10 |
| b. | List the facilities to women employee in factories? | CO3 | 7 |
| c. | Define the terminology ‘Equal pay for equal work’? | CO3 | 3 |