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



**End Semester Examination – Nov/Dec – 2019**

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| **Code :** | **17CR2022** | **Duration :** | **3hrs** |
| **Sub. Name :** | **FIRE AND INDUSTRY SAFETY** | **Max. Marks :** | **100** |

**ANSWER THE QUESTIONS (5 X 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Write short notes on ladder, ropes and lines. | CO4 | 5 |
| b. | Write short notes on bends and hitches. | CO4 | 5 |
| c. | Explain in detail about LPG, its hazards and precautions. | CO5 | 10 |
| **(OR)** | | | | |
| 2. | a. | Write short note on portable fire extinguisher and PASS. | CO2 | 5 |
| b. | Write short notes on starving and inhibition. | CO2 | 5 |
| c. | Discuss in detail about fire brigades and the training provided for members of fire brigades. | CO5 | 10 |
|  |  |  |  |  |
| 3. | a. | Explain about the fire resistant clothing. | CO4 | 5 |
| b. | What are the causes of household fire? Explain in detail the fire safety measures that can be adopted at homes. | CO6 | 15 |
| **(OR)** | | | | |
| 4. | a. | Explain hose and hose fitting. | CO4 | 5 |
| b. | Discuss in detail the different types of extinguisher and classes of fire for which they can be used. | CO3 | 15 |
|  |  |  |  |  |
| 5. | a. | Write short note on water relay system. | CO4 | 5 |
| b. | Write short notes on pumps and primers. | CO4 | 5 |
| c. | What is emergency lighting? Explain the alternatives of emergency lighting. | CO3 | 10 |
| **(OR)** | | | | |
| 6. | a. | What are the causes of electrical fires at home? | CO4 | 5 |
| b. | Discuss in detail the most commonly used fire alarm system and fire detection methods in commercial buildings. | CO3 | 15 |
|  |  |  |  |  |
| 7. | a. | Explain the basic components and testing of emergency lighting. When it is required? | CO4 | 10 |
| b. | What are the causes of vehicle fire? Explain in detail the fire safety measures that can be adopted in homes. | CO1 | 10 |
| **(OR)** | | | | |
| 8. | a. | Write short notes on fire triangle and fire tetrahedron. | CO2 | 5 |
| b. | Define conduction and ignition. | CO3 | 5 |
| c. | Explain about the classification of fire with suitable examples. | CO3 | 10 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Write about the general fire safety considerations when you discover fire and hear fire alarm. | CO6 | 10 |
| b. | What type of fire extinguisher is used for forest fire? Explain the preventive measures adopted for forest fire. | CO5 | 10 |