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



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

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| **Code :** | **18MS2001** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PROFESSIONAL ETHICS** | **Max. Marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Compare and contrast Transactional, Transformational and Charismatic leadership styles. | CO3 | 20 |
| **(OR)** | | | | |
| 2. | a. | Explain the different models of professional roles with examples. | CO2 | 10 |
| b. | Elucidate relationship between safety – risk and cost. | CO4 | 10 |
|  |  |  |  |  |
| 3. |  | Engineering societies can promote ethics. Discuss. | CO1 | 20 |
| **(OR)** | | | | |
| 4. |  | Explain the types of conflict of interest and also provide ways to avoid it. | CO4 | 20 |
|  |  |  |  |  |
| 5. |  | Reveal the significance of intellectual property rights. Also explain the legislations covering intellectual property rights in India. | CO6 | 20 |
| **(OR)** | | | | |
| 6. |  | Examine the basic rights of an engineer in detail with examples. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | Elaborate engineers involvement in Weapon development. | CO5 | 20 |
| **(OR)** | | | | |
| 8. |  | Computers as objects of unethical acts. Discuss. | CO1 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | |  | | --- | | The fatal launching of space shuttle “Challenger” in 1985 resulted from a disorganized sequence of economic considerations, political pressures and scheduling backlogs. The reality of a failed booster joint seal design took a back seat to these considerations, despite the protestations of design engineer and others. Ethical issues raised by the case involve engineering responsibility versus management decision making, as well as the ethics of post-hoc whistle blowing and negligence in design.  i) What are the moral and ethical lessons we can learn from the space shuttle challenger tragedy?  ii) Explain how the principal actors of the space shuttle challenger project behaved as responsible experimenters within the framework of the engineering. | | CO5 | 20 |