

Reg. No.

Question Paper Code

11747

**B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2022**

Eighth Semester

**Electrical and Electronics Engineering**

**GE8076 - PROFESSIONAL ETHICS IN ENGINEERING**

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

**PART - A (10 × 2 = 20 Marks)**

Answer ALL Questions

- |  | <i>Marks,<br/>K-Level, CO</i> |
|--|-------------------------------|
| 1. Define work ethics.   | 2,K1,CO1                      |
| 2. What is meant by integrity? How is it related to work ethics?   | 2,K1,CO1                      |
| 3. State Kohlberg's theory.  | 2,K1,CO2                      |
| 4. What is moral Dilemma?  | 2,K1,CO2                      |
| 5. What are the general features of morally responsible engineers? | 2,K1,CO3                      |
| 6. What are the limitations of codes of ethics?                    | 2,K1,CO3                      |
| 7. What do you mean by IPR?  | 2,K1,CO4                      |
| 8. Differentiate between Risk analysis and Risk benefit analysis.  | 2,K1,CO4                      |
| 9. What is Environmental Ethics?                                   | 2,K1,CO5                      |
| 10. What is moral leadership?                                      | 2,K1,CO5                      |

**PART - B (5 × 13 = 65 Marks)**

Answer ALL Questions

11. a) Explain the scope and importance of professional ethics in Engineering. 13, K2,CO1
- OR**
- b) Explain the role of Yoga and meditation in the field of professional excellence and stress management. 13, K2,CO1
12. a) What is moral autonomy? Compare and contrast the theories of moral autonomy by Kohlberg and Gilligan. 13, K2,CO2
- OR**
- b) Discuss in detail about the types of inquiries. 13, K2,CO2
13. a) Explain the characteristics of Morally Responsible Engineers. 13, K2,CO3

**OR**

*K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create*

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b) How can an engineer become a responsible experimenter? Explain in detail. 13, K2, CO3

14. a) Discuss on the importance of Collective Bargaining. 13, K2, CO4

**OR**

b) Discuss the significance of intellectual property rights. Also explain the legislation covering IPR in India. 13, K2, CO4

15. a) Discuss the various global issues that have an impact on business. 13, K2, CO5

**OR**

b) Discuss the ethical role of engineers in weapon development with suitable examples. 13, K2, CO5

**PART - C (1 × 15 = 15 Marks)**

16. a) With various examples explain the various ethical issues faced by a consultant engineer. How an engineer can create a good ethical climate in any industry. 15, K2, CO6

**OR**

b) Discuss in detail about the moral and ethical issues involved in use of computers. 15, K2, CO6