**GE2025 PROFESSIONAL ETHICS IN ENGINEERING**

**UNIT I**

 **Part A (2 MARKS)**

1. What is honesty?
2. List the types of Inquiries
3. Define moral dilemma.
4. What do you mean by Profession?
5. Define the term ‘engineering ethics’?
6. What are the chief characteristics of a ‘profession’?
7. State the steps involved in resolving moral dilemma.
8. What is meant by moral autonomy?
9. What are the three different levels of moral development suggested by Kohlberg?
10. Define confidentiality.
11. Define integrity? Give an example.
12. List out the theories about virtues.
13. Why it is necessary for engineering students to study ethics?
14. What is morality?
15. Who is a professional?
16. What are the skills required for improving moral autonomy of engineers?
17. Define consensus and controversy.
18. Define micro ethics.
19. Define macro ethics
20. Define normative inquiries.

**Part B (16 MARKS)**

1. What do you understand by moral autonomy? Explain in detail about the skills to be possessed by morally autonomous engineer?
2. Discuss in detail about the various theories on right action.
3. Discuss in detail about Profession, Professional and Professionalism.
4. Explain about the theories of moral development.
5. Explain in detail about the types of inquiries.
6. Explain briefly about Kant’s theory. Also explain how this was later modified by Rawl.
7. Explain about the variety of moral issues faced by an engineer.
8. Explain briefly about virtues and theories about virtues
9. Explain in detail about professional responsibility.
10. Write short notes on senses of responsibility. Also explain about the theory of utilitarianism

**UNIT II**

**Part A (2 MARKS)**

1. What are codes of ethics?
2. What are the different roles and functions of codes of ethics?
3. What are the problems with the law in engineering?
4. What is meant by standardization?
5. What are the limitations of codes of ethics?
6. What do you meant by valid consent?
7. Enumerate the roles of codes
8. What do you understand by a “Balanced outlook on law”?
9. What are the requirements for engineers to act as ‘responsible agents’?
10. In what ways, engineering experiments differ from standard experiments?
11. What are the benefits of standards?
12. What is meant by conscientiousness?
13. What is the role played by experimentation in the design process?
14. List out the canons of codes of ethics
15. What are industrial standards?
16. What are the general responsibilities of engineers to society?
17. Name some of the engineering societies that have published codes of ethics?
18. Give a brief account of learning from the past, mentioning an example.
19. What are the general features of morally responsible engineers?
20. What do you understand by experimental control?

**Part B (16 MARKS)**

1. How can an engineer become a responsible experimenter?
2. What are the problems and proper roles associated with the laws in engineering?
3. Discuss on the roles played by the code of ethics?
4. Explain the Ethical Issues involved in the Challenger case study.
5. Discuss about Engineering experiments Vs standard experiments.
6. How do you call an engineer as a responsible experimenter?
7. Why engineering projects are viewed as experiments?
8. Explain work ethics in detail
9. Describe the general features of morally responsible engineer from the perspective of engineering as social experimentation
10. Give justifications on how the challenger disaster could have been avoided by engineers.

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