

Vidarthiplus Important Questions

Anna University, Chennai

Department of B.E-Automobile Engineering

B.E / B.TECH DEGREE EXAMINATION Nov Dec 2015

SIXTH SEMESTER

GE2025 Professional Ethics in Engineering

(REGULATION 2008)

1. .i) Explain Gilligan's theory of moral development{(i)

ii) Explain Kohlberg's model of moral development(8)

2. Explain the scope of engineering ethics(16)

3. Discuss the importance of duty ethics and virtue in engineering profession

4.

Explain:

- (i) Professional responsibility (4)
- (ii) Integrity and Self respect (3)
- (iii) Utilitarianism. (4)

5. Explain in detail the Challenger accident. What are the ethical problems involved in this?

6. Compare and contrast engineering experiments with standard experiments.(16)

7

- (i) Discuss the contrasts and similarities of engineering experiments with standard experiments. (12)
- (ii) Explain moral autonomy. (4)

8

- (i) What is meant by informed consent when bringing an experimental product to the market? (6)
- (ii) How do ethical codes provide discipline among engineers? (10)

9

- (i) Discuss the notion of safe exit, using evacuation plans for communities near nuclear plants or chemical process plants. (8)
- (ii) State the necessity of risk-benefit analysis. (8)

10

Discuss the causes of Bhopal disaster. Explain the responsibility of engineers in the design of product in the design stage itself before the event of an accident. (16)

11

- (i) How are public risks perceived? Explain with Bhopal gas tragedy. (12)
- (ii) Discuss different types of risk. (4)

12

Explain how risks are reduced and also discuss the risk benefit analysis. (16)

13. Explain in detail about the effect of information on risk assessments(16)

14. Describe the concept of risk benefit analysis(16)

15

Discuss human rights, professional rights and employee rights in an engineering field. (16)

16

- (i) List the advantages and limitations of collective bargaining. (6)
- (ii) Explain whistle blowing and list the problems associated with it. (10)

17

- (i) Engineers in weapon development — Discuss (10)
- (ii) Describe the ethics related to multinational corporations (6)

18

Discuss the following in detail :

- (i) Business ethics
- (ii) Environmental Ethics
- (iii) Computer Ethics
- (iv) Weapons Development. (4 × 4 = 16)

19. Discuss Bhopal disaster case study'(16)

20. Is there any relationship among Engineering, Ecology and economics? Discuss(16)