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Question Paper Code : 11369

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2011

Sixth Semester

Civil Engineering

GE 2025 — PROFESSIONAL ETHICS IN ENGINEERING

(Common to Sixth Semester Automobile Engineering, Electrical and Electronics Engineering / Biotechnology, Textile Technology and, Fifth Semester Textile Technology (Fashion Technology))

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions

PART A — (10 × 2 = 20 marks)

1. What are the significances of Engineering Ethics?
2. What is meant by normative enquiry?
3. Define ethical accountability.
4. List the limitations of ethical codes.
5. Define safe exit.
6. What is informed consent?
7. Compare misguided loyalty with loyalty.
8. List the problems related to price fixing.
9. Define ethical relativism.
10. What are the qualities of moral leadership?

PART B — (5 × 16 = 80 marks)

11. (a) Explain:
- (i) Professional responsibility (4)
 - (ii) Integrity and Self respect (8)
 - (iii) Utilitarianism. (4)
- Or
- (b) (i) Explain Kohlberg's theory in detail. (12)
- (ii) Compare Kohlberg's and Gilligan's theory. (4)
12. (a) (i) Discuss the contrasts and similarities of engineering experiments with standard experiments. (12)
- (ii) Explain moral autonomy. (4)
- Or
- (b) (i) Discuss the codes of ethics in detail and also highlight the limitations associated with it. (10)
- (ii) List down the ethical violations in challenger space shuttle tragedy. (6)
13. (a) (i) How are public risks perceived? Explain with Bhopal gas tragedy. (12)
- (ii) Discuss different types of risk. (4)
- Or
- (b) Explain how risks are reduced and also discuss the risk benefit analysis. (16)
14. (a) (i) Define collegiality and discuss the elements of collegiality. (6)
- (ii) Explain the respect for authority in detail. (10)
- Or
- (b) (i) List the advantages and limitations of collective bargaining. (6)
- (ii) Explain whistle blowing and list the problems associated with it. (10)
15. (a) (i) Engineers in weapon development — Discuss (10)
- (ii) Describe the ethics related to multinational corporations (6)
- Or
- (b) (i) Engineers as expert witnesses and advisors - Explain. (10)
- (ii) Discuss the ethical principles adopted for protecting the environment. (6)