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**Question Paper Code : 60639**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Sixth/Eighth Semester

Civil Engineering

GE 2025/GE 606/10177 GE 005/10144 CSE 59 — PROFESSIONAL ETHICS IN  
ENGINEERING/PROFESSIONAL ETHICS AND HUMAN VALUES

(Common to Fifth Semester – Textile Technology / Textile Technology  
(Fashion Technology) and Biotechnology and Sixth Semester –  
Civil Engineering, Automobile Engineering, Manufacturing Engineering,  
Electrical and Electronics Engineering and Materials Science and Engineering  
and Eighth Semester Geoinformatics, Marine Engineering, Computer Science and  
Engineering Biomedical Engineering, Electronics and Instrumentation, Industrial  
Engineering, Industrial Engineering and Management,  
Instrumentation and Control Engineering)

(Regulations 2008/2010)

(Common to PTGE 2025/10144 CSE 59/10177 GE 005 – Professional Ethics in  
Engineering for BE. (Part-Time) Fifth Semester – Civil Engineering and  
Electrical and Electronics Engineering, Seventh Semester – CSE/ECE/  
Mechanical Engineering – Regulations 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Ethics. Mention some universally accepted ethical standards.
2. Define moral values with suitable examples.
3. Define 'Engineering Ethics'.
4. What do you understand by "a Balanced outlook on Law"?
5. State the industrial definition on safety.
6. What is meant by Disaster?
7. Define collegiality'. What are its elements?
8. List the factors that enhance the self confidence in a person.
9. What are the International rights listed by Donaldson?
10. What is the meaning of 'moral leadership'?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the Kohlberg's theory on moral development. (8)  
(ii) Write short notes on 'Moral dilemmas'. (8)

Or

- (b) (i) Discuss Gilligan Theory. (6)  
(ii) What are the uses of ethical theories? (6)  
(iii) Write on Professional ideals and Virtues. (4)
12. (a) (i) Discuss the space shuttle Challenger accident. What are the ethical problems involved in this? (10)  
(ii) Discuss about Research ethics. (6)

Or

- (b) (i) What is meant by informal consent when bringing an experimental product to the market? (6)  
(ii) How the ethical codes provide discipline among the engineers? (10)
13. (a) (i) Define the terms risk and safety. How will an engineer assess the safety? (8)  
(ii) What are the factors that affect risk acceptability? What is the use of knowledge of risk acceptance to engineers? (8)

Or

- (b) Define risk benefit analysis? Why is it conducted? What are the limitations of risk benefit analysis? (16)
14. (a) (i) Discuss the significance of loyalty and collegiality in team work. (8)  
(ii) Distinguish between employee rights and professional rights. (8)

Or

- (b) Write a brief note on :  
(i) Institutional Authority. (8)  
(ii) Discrimination. (8)
15. (a) (i) Discuss the ethical issues related to computer ethics and internet. (10)  
(ii) Write briefly on environmental ethics and weapon development. (6)

Or

- (b) (i) Explain the role of engineers as managers. (8)  
(ii) Write briefly on Engineers used as Expert Witness. (8)