

Reg. No. : 

--	--	--	--	--	--	--	--	--	--	--	--

**Question Paper Code : 70638**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Fifth/Sixth/Seventh/Eighth Semester

Civil Engineering

GE 6075 — PROFESSIONAL ETHICS IN ENGINEERING

(Common to Agriculture Engineering/Automobile Engineering/  
Biomedical Engineering/Civil Engineering/Computer Science and  
Engineering/Electrical and Electronics Engineering/Electronics and Communication  
Engineering/Electronics and Instrumentation Engineering/Geoinformatics  
Engineering/Industrial Engineering/Instrumentation and  
Control Engineering/Manufacturing Engineering/Materials Science and  
Engineering/Mechanical Engineering/Mechatronics Engineering/  
Production Engineering/Chemical Engineering/Fashion Technology/  
Food Technology/Handloom and Textile Technology/Information  
Technology/Petroleum Engineering/Plastic Technology/  
Polymer Technology/Textile Chemistry/Textile Technology)

(Regulations 2013)

(Also common to PTGE 6075 – Professional Ethics in Engineering for  
B.E. (Part-Time) Fifth Semester Civil Engineering – Sixth Semester –  
Computer Science and Engineering, Electronics and Communication Engineering,  
Electrical and Electronics Engineering, Regulations 2014)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is meant by integrity? How is it related to work ethics?
2. Define the term self confidence. How is it related to character development?
3. What is meant by engineering as experimentation?
4. State the importance of ethical theories.
5. What are the advantages of codes of ethics?
6. What are the limitations of standardized experimentation?

7. Define risk-benefit analysis.
8. What is meant by whistle blowing?
9. What is meant by computer ethics?
10. Define Code of conduct.

PART B — (5 × 13 = 65 marks)

11. (a) Write short notes on Honesty and Integrity.

Or

- (b) Explain the role of Yoga in Professional Ethics.

12. (a) Discuss in detail about the concept of
  - (i) Moral Dilemmas.
  - (ii) Moral Autonomy.

Or

- (b) Discuss in details the various theories about right action.

13. (a) What is the importance of codes of ethics? Explain in detail.

Or

- (b) How can an engineer become a responsible experimenter? Explain in detail.

14. (a) Explain the procedure in risk benefit analysis and discuss its role in reducing risks with suitable examples.

Or

- (b) Discuss the 'faithful agent argument' and 'public service argument' of collective with Suitable examples.

15. (a) Discuss the ethical issues related to computer ethics.

Or

- (b) Discuss the following in detail :
  - (i) Engineers as consultants (6)
  - (ii) Engineers as expert witness and advisors. (7)

PART C — (1 × 15 = 15 marks)

16. (a) Discuss the role and importance of Ethics in Engineering.

Or

(b) Explain the significance of Environmental Ethics for an Engineer by giving an examples of environmental issue.

---