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**Question Paper Code : X20651**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020  
AND APRIL/MAY 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 ?
2. Define spirituality.
3. What is engineering ethics ?
4. What is the basic concept of right action ?
5. What reasons lead to many repetitions of past mistakes ?
6. Give limitations of Code.
7. What is meant by risk ?
8. Define confidentiality.



9. Define appropriate technology.
10. What are the International rights listed by Donaldson ?

**PART – B****(5×13=65 Marks)**

11. a) i) Write short notes on Service Learning. **(6)**  
ii) Define work ethic. What are the elements of work ethics ? **(7)**  
(OR)
- b) Discuss the role of Yoga for professional excellence and stress management.
12. a) Briefly explain the three main levels of moral developments, developed by Gilligan.  
(OR)
- b) i) Discuss the models of professional roles. **(6)**  
ii) What is theory of Duty Ethics ? Write the Kant's and John Rawls modern theory of Duty ethics. **(7)**
13. a) What are the functions of code of ethics ?  
(OR)
- b) Discuss on 'Engineers as responsible experimenters'.
14. a) Explain the concept of Risk Benefit analysis with a suitable example.  
(OR)
- b) What are the main elements of IPR ? Discuss.
15. a) What is environmental ethics ? Explain its significance. Give some example of the environmental issues of concern to engineers.  
(OR)
- b) Write short notes on following :  
i) Engineers as Expert Witness. **(7)**  
ii) Engineers as Consulting Engineers. **(6)**

**PART – C****(1×15=15 Marks)**

16. a) Discuss the Ethical issues related to computer ethics.  
(OR)
- b) What are the internal responsibilities of engineers ? Discuss in detail about collective bargaining.
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**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.

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**Question Paper Code : X 10556**

B.E./B.Tech. DEGREE EXAMINATIONS, NOV/DEC 2020 AND APRIL / MAY 2021  
Sixth /Seventh/Eighth Semester  
Civil Engineering  
GE 8076 – PROFESSIONAL ETHICS IN ENGINEERING  
(Common to all Branches)  
(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Write the difference between ethics, morale and values.
2. Differentiate sympathy from empathy.
3. What is moral dilemma ?
4. Write the need of engineering ethics.
5. What are the general features of morally responsible engineers ?
6. Differentiate between scientific experiments and engineering projects.
7. Write the difference between Manager and Leader.
8. Write the advantages of collective bargaining.
9. What do you mean by hired gun ?
10. Define environmental ethics.





**PART – B**

**(5×13=65 Marks)**

11. a) Write the need and importance of studying ethics and how far the study of ethics improves the behavior of an individual and boosts the organization culture.  
(OR)  
b) Discuss in detail how far the Yoga and Meditation improves ones personality and help to achieve professional excellence and stress management.
12. a) Write the various Moral theories and discuss in detail the Gilligen’s theory.  
(OR)  
b) Discuss in detail the Kohlberg’s theory.
13. a) Engineers are responsible experimentors. Discuss.  
(OR)  
b) Write the importance of code of ethics for Engineers in order to maintain the industrial standards.
14. a) How far the intellectual property rights are protected statutorily in India.  
(OR)  
b) Explain the process of collective bargaining in Indian Context in the industries.
15. a) What is Cyber Crime ? Discuss in detail the various cyber crimes in the context of Ten Commandments of Computer Ethics.  
(OR)  
b) Discuss in detail the concept of Business Ethics and Environmental ethics in the context of technological development and for the sustenance of sustainable development.

**PART – C**

**(1×15=15 Marks)**

16. a) With various examples explain the various ethical issues faced by a consultant engineer. How an engineer can create a good ethical climate in any industry ?  
(OR)  
b) Discuss in detail on the Ethical behavior of an individual is it same when he is “alone or in a Group of company” and “Should ethics be prompted or imposed”.
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