

Reg. No. :

Question Paper Code : 50713

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Sixth/Seventh/Eighth Semester

Civil Engineering

GE 8076 – PROFESSIONAL ETHICS IN ENGINEERING

(Common to: Aeronautical Engineering/Aerospace Engineering/Agriculture Engineering/Automobile Engineering/Biomedical Engineering/Computer Science and Engineering/Computer and Communication Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Electronics and Telecommunication Engineering/Environmental Engineering/Geoinformatics Engineering/Industrial Engineering/ Industrial Engineering and Management/Instrumentation and Control Engineering/Manufacturing Engineering/Marine Engineering/Material Science and Engineering/Mechanical Engineering/ Mechanical Engineering(Sandwich)/Mechanical and Automation Engineering/Mechatronics Engineering/ Medical Electronics/Petrochemical Engineering/Production Engineering/Robotics and Automation/Bio Technology/Chemical Engineering/Chemical and Electrochemical Engineering/Fashion Technology/Food Technology/Handloom and Textile Technology/Information Technology/Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology/Plastic Technology/Polymer Technology/Textile Chemistry/Textile Technology)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is Professional Ethics?
2. Define the term "Morality".
3. Differentiate value from cost.
4. State Engineering Ethics.
5. What is Customs with reference to any society?

6. What is called as Code of Conduct?
7. Define Risk Assessment.
8. Write about Collective Bargaining.
9. What is computer ethics?
10. What is Corporate Social Responsibility?

PART B — (5 × 13 = 65 marks)

11. (a) Write an Essay on how far Yoga and Meditation is helpful in attaining professional excellence and overcoming Stress.

Or

- (b) List the various types of Human Values and how far those Human Values improves one's personality.

12. (a) Discuss in detail Kohlberg's Theory.

Or

- (b) Write the various uses of Ethical Theory and discuss in detail the Gilligan's theory.

13. (a) How effectively Engineering can be used for social experimentation? Discuss its merits and demerits

Or

- (b) Differentiate Law from Ethics. Discuss in detail the contributions of Law and Ethics to improve one's morality and personality.

14. (a) Differentiate Safety from Risk. How far the assessment of safety and risk is helpful in improving the worker's morality, work culture and work atmosphere.

Or

- (b) What is Intellectual Property Rights? How it differs from other property rights? Discuss in detail about copyright, Patents and Geographical Indicators.

15. (a) Discuss in detail, the various steps involved in multinational companies how it improves the workers morality and ethics.

Or

- (b) Explain in detail the process of Computer Ethics and Environmental Ethics.

PART C — (1 × 15 = 15 marks)

16. (a) Write the various moral, ethical and social responsibilities of Engineers when they play the role of expert witness and advisors in any corporate sector or Government.

Or

- (b) Explain in detail the various approaches to resolve Environmental problems especially in developing country like India.