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Question Paper Code : 60750

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2026.

Sixth/Seventh/Eighth Semester

Civil Engineering

GE8076 — PROFESSIONAL ETHICS AND 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/Safety and Fire Engineering/ Biotechnology/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. Define: Integrity.
2. What is empathy?
3. What are the types of inquiry?
4. State: Kohlberg's Theory.
5. How is Engineering considered a Social Experimentation?

6. What are Codes of Ethics?
7. Define: Safety and risk.
8. What is occupational crime?
9. State the need for environmental ethics.
10. Who are Consulting Engineers

PART B — (5 × 13 = 65 marks)

11. (a) Discuss the concepts of morals, values, and ethics in detail.

Or

- (b) Outline the importance of Yoga and Meditation for Professional Excellence and Stress Management.

12. (a) Explain in detail the variety of moral issues in engineering.

Or

- (b) Explain Gilligan's Theory in detail.

13. (a) Bring out the significance of engineers as responsible experimenters in detail.

Or

- (b) Provide a detailed overview of the laws pertaining to the codes of ethics.

14. (a) Illustrate in detail about the Assessment of Safety and Risk.

Or

- (b) Describe in detail about the Intellectual Property Rights (IPR).

15. (a) Elucidate the ethical issues in Weapons Development in detail.

Or

- (b) Explain in detail about Corporate Social Responsibility with suitable illustrations.

PART C — (1 × 15 = 15 marks)

16. (a) Industrial chemicals are produced on a large scale by a conglomerate. It suggested establishing a second unit. Due to its negative impact on the environment, many states rejected this proposal. But one state government accepted to the request and permitted the unit close to a city, brushing aside all opposition. Further, the unit was set up 10 years ago and was in full swing till recently. The pollution caused by the industrial