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Question Paper Code : 70735

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 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. Define Moral.
2. What are Civil virtues?
3. Bring out difference between Personal Ethics and Business Ethics.
4. What is Conceptual Enquiry? Give one example.
5. List any two responsibilities of Engineers to the Society.

6. What do you mean by "Code of Ethics".
7. Define the term "Risk".
8. What is meant by 'Disaster'?
9. What is meant by 'Technology Transfer'?
10. What are the three versions of Relativism?

PART B — (5 × 13 = 65 marks)

11. (a) (i) List and explain any four characteristics of VALUES. (4)
- (ii) What is meant by Work Ethics? List and explain elements of work ethics. (4)
- (iii) Explain Four Common approaches used in Ethical Decision. (5)

Or

- (b) (i) List any four core human values. Further classify/explain values related to each. (4)
 - (ii) Explain the meaning of integrity. Mention different types of integrity. (4)
 - (iii) What is ethics? List and explain the ethics in relation to other studies. (5)
12. (a) (i) Define 'Moral Dilemma'. Explain in brief any three causes of Moral Dilemma. (4)
 - (ii) Define the following terms: (1) Gilligan's theory (2) Accountability, (3) Controversy and (4) Bribe (4)
 - (iii) What is profession? List and explain three characteristics of Profession. (5)

Or

- (b) (i) Define 'Moral Autonomy'. List any four skills required to improve moral autonomy. (4)
- (ii) Define the following terms: (1) Kohlberg's theory (2) Ethical Egoism (3) Consensus and (4) Liability (4)
- (iii) What is Professionalism? Explain any four professional roles. (5)

13. (a) (i) Explain the limitations of code of ethics. (4)
(ii) Discuss the problems associated with laws in engineering and Enumerate the proper role of law engineering? (4)
(iii) What are Industrial Standards? List the purpose of industrial standards? (5)

Or

- (b) (i) List any four essential roles 'Codes of Ethics'. (4)
(ii) Explain "Engineers as Responsible Experimenters". (4)
(iii) Discuss on the roles played by the codes of ethics set by professional societies. (5)
14. (a) (i) Define the terms (1) Discrimination (2) Copy right (3) Safety and (4) Conflict of interest. (4)
(ii) Distinguish between "Institutional authority" and "Expert authority". (4)
(iii) What is a patent? List the types. Also list out requirements for granting patent. (5)

Or

- (b) (i) Define the terms (1) Moon lighting (2) Occupational crime (3) Strict liability and (4) Collective bargaining. (4)
(ii) Define Collegiality and what are the central elements of collegiality. (4)
(iii) Why does conflict of bargaining arise? (5)
15. (a) (i) Point out any six responsibilities of consulting engineering? (4)
(ii) Write a short note on CSR. Explain its scope in detail. (4)
(iii) What is 'Professional Obligation'? List any four professional obligation of Engineers. (5)

Or

- (b) (i) Write a short notes on Globalization mentioning advantages and disadvantages. (4)
(ii) List out various issues and requirements for engineers who act as advisors. (4)
(iii) Discuss various approaches to resolve environmental problems. Mention any four professional codes of Ethics concerning to environment. (5)

PART C — (1 × 15 = 15 marks)

16. (a) (i) What is Advertising? How consulting engineers are responsible in advertising? Give any one deceptive that you have come across? (5)
- (ii) List out ethical codes executed by Engineer in safety Risk assessment. (10)

Or

- (b) (i) Discuss briefly Weapons Development and engineer's involvement in Weapons work, as a Global Issues. (5)
- (ii) What is Computer Ethics? List good intensions of Digital currency. Analyze the computer ethics involved in trading of Crypto currency. (10)