

GE8076 PROFESSIONAL ETHICS IN ENGINEERING

IMPORTANT QUESTIONS AND QUESTION BANK

UNIT-I HUMAN VALUES

2-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 civic virtue and how is it related to respect for others?
4. Define the term empathy and how is it related to emotional quotient.
5. What are the general characteristics of value?
6. What are the two important ways of building courage?
7. What are the values?
8. What is meant by self-confidence?
9. Define spirituality.
10. What are the qualities of a self-confident people?
11. What are human values?
12. Distinguish values from ethics and culture.
13. What is integrity?
14. Define work ethics.
15. What is service learning?
16. Write note on honesty.
17. What is courage as a value?
18. Define co-operation.
19. Define empathy.
20. Give the two aspects of honesty.
21. Differentiate self-respect and self-esteem.
22. Define Yoga.
23. What are the types of yoga?
24. Define meditation.
25. What are the types of meditation?

13-Marks

1. What is service learning? Discuss its role in caring and sharing in society with suitable examples.
2. What is empathy? Discuss its role in the spiritual development for excellence in an organization with suitable examples.
3. What is integrity? How integrity plays a major factor in work ethics? Discuss with suitable examples.
4. What is spirituality? What are the spiritual traits to be developed for excellence in an organization? Discuss with suitable examples.

5. Define empathy. State and explain the elements, benefits of empathy and compare empathy with sympathy.
6. Explain in detail about the yoga and meditation for professional excellence and stress management.
7. Explain the importance of self-confidence in ethics.
8. What is courage? What are the salient features of courage?
9. Write short notes on honesty.
10. Explain in detail about civic virtue.
11. Explain the different ways to improve the spirituality in corporate Environment?
12. Explain the different ways to improve the human values?
13. Explain caring, sharing and living peacefully.
14. Explain integrity and honesty in ethics.
15. Write a detail note on work ethics.

UNIT-II ENGINEERING ETHICS

2-Marks

1. Define the term moral autonomy.
2. List the theories about right action.
3. What are the merits of moral autonomy?
4. Write the uses of ethical theories.
5. State the three types of inquiry.
6. What are the two important versions of utilitarianism?
7. State Gilligan theory.
8. what is meant by consensus?
9. Define Engineering Ethics.
10. What is the need to study Ethics?
11. Differentiate Moral and Ethics.
12. What is the method to solve an Ethical problem?
13. What are the Senses of Engineering Ethics?
14. Differentiate Micro-ethics and Macro-ethics.
15. What are the sorts of complexity and murkiness that may be involved in moral situation?
16. What are the steps in confronting Moral Dilemmas?
17. Give the importance of Lawrence Kohlberg's and Carlo Gilligan's theory?
18. Give the need for Authority?
19. What are the criteria required for a profession?
20. Give the general criteria to become a professional engineer?
21. Define integrity.
22. Give the two aspects of honesty.

23. Define compromise.
24. Define religion.
25. Give the uses of Ethical Theories.

13-Marks

1. Discuss the theories of moral autonomy by Kohlberg and Gilligan.
2. Discuss the motives for professionalism and the models for professional engineers.
3. Explain the Gilligan 's theory for moral development.
4. What are the different types of models of professional roles?
5. Explain the theory of human rights ethics and its classification?
6. What is meant by self-interest? Relate the term with "Ethical Egoism" with suitable examples.
7. Explain in detail about the sense of Engineering Ethics.
8. Discuss in detail the various ethical theories and their uses.
9. What is meant by Moral Autonomy? Discuss the factors influencing a person's concern and the skills required to improve Moral Autonomy.
10. Describe the professional roles played by an Engineer.
11. Explain the three levels of moral developments with respect to Gilligan views.
12. What is Duty Ethics? Explain in detail
13. Discuss about a) consensus and controversy b) Heinz's Theory.
14. Explain in details the professionalism ideals and virtues.
15. Discuss in detail the various theories about right action.

UNIT-III ENGINEERING AS SOCIAL EXPERIMENTATION

2-Marks

1. What are the advantages of codes of ethics?
2. What are the limitations of standardized experimentation?
3. What are the merits of standardized experimentation?
4. What are the limitations of code of ethics?
5. what is meant by Conscientiousness?
6. What are codes of ethics referred to?
7. Differentiate scientific experiments and engineering projects.
8. Give the limitations of codes.
9. What are the conditions essential for valid informed consent?
10. What are the two main elements which are included to understand informed consent?
11. What are the general features of morally responsible engineers?
12. What is the purpose of various types of standards?
13. Define code.

14. Enumerate the roles of codes?
15. Give the limitations of codes?
16. What are the problems with the law in engineering?
17. What is the need to view engineering projects as experiments?
18. What are the uncertainties occur in the model design?
19. Define Theories of right action.
20. What is meant by standardization?
21. Write about Engineering Ethics and its approaches.
22. Define the term Accountability.
23. What are standards?
24. Why do we need standards?
25. What are the types of standards?

13-Marks

1. Compare and contrast engineering experiments with standard experiments with suitable examples.
2. Discuss the models of research ethics with suitable examples.
3. What is research ethics? Discuss the models of research ethics with suitable examples.
4. What is Code of Ethics? State and explain the functions of codes of ethics and objections to codes.
5. Discuss the problem associated with laws in Engineering and enumerate the proper role of law engineering.
6. How can engineer become a responsible experiment? Highlight the code of ethics for engineers.
7. Discuss on the roles played by the codes of ethics set by professional societies.
8. What is the different role of and functions of 'Code od Ethics'?
9. Explain in detail the powerful support and proper role of law in engineering.
10. With a case study explain the "learn from the past" in engineering experimentation.
11. Discuss on "Engineers as responsible experimenters".
12. What are the functions of codes of ethics?
13. Explain detail about balanced outlook on law.
14. Explain detail about industrial standards.
15. Explain in detail about engineering as experimentation.

UNIT-IV SAFETY, RESPONSIBILITIES AND RIGHTS

2-Marks

1. Define term safety. How is it related to risk?
2. What is meant by conflict of interest?
3. What is meant by confidentiality and why it is needed?
4. Define safety.
5. What does the term Collective Bargaining refer to?
6. Differentiate between Risk analysis and Risk benefit analysis.
7. What is intellectual property right?
8. Define risk-benefit analysis.
9. What is meant by whistle blowing?
10. Define disaster
11. What are the factors for safety and risk?
12. What are the three-conditions referred to as safe exit?
13. Define Acceptability of risks.
14. Explain the two types of risk.
15. What does Strict Liability mean?
16. What does Open-mindedness refer to?
17. What is 'White-collar crime'?
18. What is the importance of IPR?
19. Define Employee Rights.
20. Define Discrimination.
21. What are the general procedures for implementing the right to due process?
22. Differentiate Human Rights and Professional rights?
23. Define Whistle Blowing.
24. Define conflicts of interest.
25. What is called kickbacks?

13-Marks

1. Explain the procedure in risk benefit analysis and discuss its role in reducing risks with suitable examples.
2. Discuss the 'faithful agent argument' and 'public service argument' of collective with suitable examples.
3. 'Safety in a commodity comes with a price'-substantiate with explanation. Discuss how the knowledge of risk is always better for safety with suitable examples.
4. Discuss the concept of safe exit in the Chernobyl case study.
5. What are the Intellectual Property Rights (IPR)? Explain any one essential element of and IPR.
6. What is occupational crime? Explain any one in detail.

7. What are the factors that affect risk acceptability? What is the use of knowledge of risk acceptance to engineer?
8. What is meant by conflict of interest? Distinguish between General and Professional conflicts of interest and discuss the various types of conflicts of interest.
9. What are Intellectual Property Rights? Explain the elements of Intellectual Property Rights in detail and benefits of IPRS.
10. Explain in detail about the assessment of safety and Risk.
11. Explain the risk benefit analysis and conceptual problems associated with it.
12. What are the elements of intellectual property rights? Explain.
13. Discuss Event Tree analysis with some practical examples of risk analysis.
14. Explain the concept of confidentiality in detail.
15. Discuss the features, guideline and procedure of whistle blowing

UNIT-V GLOBAL ISSUES

2-Marks

1. What are demerits of MNCs to host country?
2. What is meant by corporate social responsibility?
3. What is meant by moral leadership?
4. What is technology transfer?
5. What is meant by Globalization?
6. Point out the responsibilities of Consulting Engineers.
7. What are the advantages of MNCs to host country?
8. What is code of conduct and mention its significance?
9. what are global issues?
10. What are the roles of international rights in multinational companies?
11. Give any ten international rights suggested by Donaldson?
12. What are the reasons for the disaster at Bhopal?
13. What is Scientist-centered ethics?
14. What are computer abuses?
15. What is embezzlement?
16. Who are hackers?
17. How engineers justify their involvements in weapons works?
18. What is an ethical climate?
19. What are the principles of conflicts of interest?
20. How can Deceptive advertising be done?
21. How engineers act as expert witness and advisers?
22. What is Corporate Social Responsibility?
23. What are hired guns?
24. How engineers could act as morally creative leaders?
25. How can Deceptive advertising be done?

13-Marks

1. Discuss the ethical role of engineer as consultants with suitable examples.
2. Discuss the ethical role of engineer as experts witness with suitable examples.
3. Discuss the ethical role of engineer in weapon development with suitable examples.
4. Discuss the ethical issue related to computer ethics.
5. Discuss the following in detail. a) Engineering as consultant b) Engineers as expert witness and advisors.
6. State the type of concern for environment by the Engineers. Discuss the approaches to resolve environmental problems. What do professional codes of ethics say about the environment?
7. What is meant by computer ethics? State and explain the categories of ethical problems and the unethical acts computer as an instrument of unethical behavior. What is meant by hacking?
8. Discuss the ethical role of engineers as a consulting engineer with suitable example.
9. Discuss in detail about Engineers as Managers.
10. Explain Moral Leadership in detail.
11. Explain the role of engineers as "Consulting Engineers".
12. Describe in details about the global issue of weapons development.
13. Discuss in detail about environmental ethics.
14. Discuss in detail about code of ethics.
15. Explain in detail about Management of conflicts and the principles of conflicts.