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Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 21461

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Seventh Semester

Electronics and Communication Engineering

GE 2025/GE 606/10177 GE 005 — PROFESSIONAL ETHICS IN ENGINEERING

(Common to Fifth Semester — Textile Technology/Textile Technology (Fashion Technology) and Biotechnology)

(Also common to Eighth Semester — Electronics and Instrumentation Engineering, Instrumentation and Control Engineering, Marine Engineering, Mechanical Engineering, Information Technology, Computer Science and Engineering Sixth Semester — Civil Engineering, Automobile Engineering and Electrical and Electronics Engineering)

(Regulation 2008/2010)

(Common to PTGE 2025 — Professional Ethics in Engineering for B.E. (Part-Time) Seventh Semester — ECE — Regulation 2009)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define 'Moral Autonomy'.

2. List the "Types of Inquiry".

3. Define 'Engineering Ethics'.

4. What do you understand by "a Balanced outlook on Law"?

5. Define 'Safety'.

6. What shall be the approach of Government Regulator towards Risk mitigation?

7. Define the term 'Collective Bargaining'.

8. What is 'Intellectual Property Rights'?

9. What is 'Environmental Ethics'? Give examples.

10. How to manage a business process model?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the Kohlberg's theory on moral development. (8)

(ii) Write short notes on 'Moral dilemmas'. (8)

Or

(b) (i) Discuss Gilligan Theory. (6)

(ii) What are the uses of ethical theories? (6)

(iii) Write on : Professional ideals and Virtues. (4)

12. (a) (i) What is 'Research Ethics'? How is it maintained? (8)

(ii) Explain the importance of industrial standards. (8)

Or

(b) (i) How do you call an Engineer as a responsible experimenter? (8)

(ii) What are codes of ethics? Discuss its advantages and disadvantages. (8)

13. (a) (i) Describe the concept of risk benefit analysis in detail. (6)

(ii) Illustrate risk and disaster with suitable examples. (10)

Or

(b) (i) Discuss the various measures of assessing and reducing risks. (8)

(ii) What are the safety measures to be taken in establishing an engineering unit? (8)

14. (a) (i) Discuss the significance of loyalty and collegiality in team work. (8)

(ii) Describe the concept of confidentiality in professional ethics. (8)

Or

(b) Write short notes on the following :

(i) Employee rights (6)

(ii) Professional rights (6)

(iii) Occupational crimes. (4)

15. (a) (i) Illustrate technology transfer with suitable examples. (10)

(ii) Discuss the issues relevant to Computer Ethics. (6)

Or

(b) Discuss the following concepts : (16)

(i) Business ethics

(ii) Ethical climate

(iii) Code of conduct

(iv) Moral leadership.