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**Question Paper Code: 31787**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Elective

Mechanical Engineering

01UME914 - PROFESSIONAL ETHICS

(Common to CIVIL, CSE, ECE, EIE, ICE and IT branches)

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is Engineering Ethics?
2. State the uses of Ethical theories.
3. How is an experiment important for Engineers?
4. State the importance of Ethical codes.
5. Define the term risk.
6. State the industrial definition on safety.
7. Define collegiality.
8. Define confidentiality.
9. Give one argument each for and against weapons development.
10. What is needed of the expert engineers?

PART - B (5 x 16 = 80 Marks)

11. (a) What virtues are more relevant for an ethical professional? Discuss with examples and justify yours views. (16)

Or

- (b) Explain about the importance of engineering ethics with a suitable illustration. (16)
12. (a) (i) State and explain the advantage and limitation of the codes of ethics of engineering societies. (10)
- (ii) Describe any six fundamental issues addressed by codes of ethics of engineering societies all over the world. (6)

Or

- (b) Explain the concept, engineering as social experimentation with examples. (16)
13. (a) (i) Define safety and risk. State the factors which influence the sensitivity of the public to risk. (8)
- (ii) Write a short note on risk-benefit analysis. (8)

Or

- (b) Describe the Bhopal gas tragedy and its effects. (16)
14. (a) (i) Describe the professional rights of engineers. (8)
- (ii) What do you understand by white collar crime? Explain the various occupational crimes with examples. (8)

Or

- (b) (i) What kind of ethical issues arise out of conflicts of interest. (8)
- (ii) Whether professionalism and unionism, can coexist? Give your views and justify. (8)
15. (a) (i) Point out the parameters behind selection of engineers as managers for an industry and discuss the various points behind managers as professionals. (8)
- (ii) Describe the sample code of ethics suggested by IEEE for electrical and electronic engineers. (8)

Or

- (b) (i) What are the benefits to MNC in doing business with developing countries. (8)
- (ii) Explain in detail the issues pertaining to environmental ethics. (8)