

Reg. No. : 9 2 0 2 1 3 1 0 7 3 0 2

Question Paper Code : 71929

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

Fifth/Sixth/Seventh/Eighth Semester

Civil Engineering

GE 6075 — PROFESSIONAL ETHICS IN ENGINEERING

(Common to Agriculture Engineering, Automobile Engineering, Biomedical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and communication Engineering, Electronics and Instrumentation Engineering, Geoinformatics Engineering, Industrial Engineering, Instrumentation and Control Engineering, Manufacturing Engineering, Materials Science and Engineering, Mechanical Engineering, Mechatronics Engineering, Production Engineering, Chemical Engineering, Fashion Technology, Information Technology, Petroleum Engineering, Plastic Technology, Polymer Technology, Textile Chemistry, Textile Technology)

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define moral values with suitable examples.
2. Define the term "Service Learning".
3. What is meant by engineering as experimentation?
4. State the importance of ethical theories.
5. What are the uncertainties occur in model designs?
6. How does the law facilitate ethics in engineering?
7. What is the use of risk analysis?
8. Define the term collective bargaining.
9. What do you mean by IPR?
10. How is corporate social responsibility practiced?

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Arav Kumar
Karthick
Majidharan
Vandhanarajan

PART B — (5 × 16 = 80 marks)

11. (a) Explain the scope and importance of professional ethics in Engineering.

Or

(b) Discuss the role of yoga for professional excellence and stress management.

12. (a) Describe Kohlberg and Gilligan's theories on moral autonomy.

Or

(b) (i) Name and describe the theories of right action. (8)

(ii) Discuss the role of 'self interest' with an example. (8)

13. (a) What is the importance of codes of ethics? Explain in detail.

Or

(b) How can an engineer become a responsible experimenter? Explain in detail.

14. (a) Describe the concept of Risk-Benefit analysis with an example.

Or

(b) Discuss in detail about the "Employee Rights" and its role in the organisations.

15. (a) Discuss in detail about the moral and ethical issues involved in use of computers.

Or

(b) Explain the role of engineers as consultant and expert witnesses.