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**Question Paper Code : 20620**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

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 Handloom and Textile Technology)

(Also common to PTGE 6075 — Professional Ethics in Engineering for B.E. (Part-Time) – Fifth Semester — Civil Engineering – Regulations 2014)

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 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. Define the term moral autonomy.
4. List the theories about right action.
5. What are the advantages of codes of ethics?
6. What are the limitations of standardized experimentation?
7. Define the term safety. How is it related to risk?
8. What is meant by conflict of interest?
9. What are demerits of MNCs to host country?
10. What is meant by corporate social responsibility?

PART B — (5 × 13 = 65 marks)

11. (a) What is service learning? Discuss its role in caring and sharing in society with suitable examples.

Or

- (b) What is empathy? Discuss its role in the spiritual development for excellence in an organization with suitable examples.

12. (a) Discuss the theories of moral autonomy by Kohlberg and Gilligan.

Or

- (b) Discuss the motives for professionalism and the models for professional engineers.

13. (a) Compare and contrast engineering experiments with standard experiments with suitable examples.

Or

- (b) Discuss the models of research ethics with suitable examples.

14. (a) Explain the procedure in risk benefit analysis and discuss its role in reducing risks with suitable examples.

Or

- (b) Discuss the 'faithful agent argument' and 'public service argument' of collective with Suitable examples.

15. (a) Discuss the ethical role of engineers as consultants with Suitable examples.

Or

- (b) Discuss the ethical role of engineers as expert witness with Suitable examples.

PART C — (1 × 15 = 15 marks)

16. (a) '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.

Or

- (b) Discuss the ethical role of engineers in weapon development with Suitable examples.