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**Question Paper Code : 41167**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Fifth/Sixth/Seventh/Eighth Semester

Civil Engineering

GE6075 – PROFESSIONAL ETHICS IN ENGINEERING

(Common to : B.E. Agriculture Engineering/B.E. Automobile Engineering/  
B.E. Biomedical Engineering/B.E. Computer Science and Engineering/B.E.  
Electrical and Electronics Engineering/B.E. Electronics and Communication  
Engineering/B.E. Electronics and Instrumentation Engineering/B.E.  
Geoinformatics Engineering/B.E. Industrial Engineering/B.E. Instrumentation  
and Control Engineering/B.E. Manufacturing Engineering/B.E. Materials Science  
and Engineering/B.E. Mechanical Engineering/B.E. Mechatronics Engineering/  
B.E. Production Engineering/B.Tech. Chemical Engineering/B.Tech. Fashion  
Technology/ B.Tech. Food Technology/B.Tech. Information Technology/B.Tech.  
Petroleum Engineering/B.Tech. Plastic Technology/B.Tech. Polymer Technology/  
B.Tech. Textile Chemistry/B.Tech. Textile Technology)  
(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What is meant by civic virtue and how is it related to respect for others ?
2. Define the term empathy and how is it related to Emotional Quotient.
3. What are the merits of moral autonomy ?
4. Write the uses of ethical theories.
5. What are the limitations of codes of ethics ?
6. What are the merits of standardized experimentation ?
7. Define the term safety and relate it to risk.
8. What is meant by confidentiality and why it is needed ?
9. What are the advantages of MNCs to host country ?
10. What is code of conduct and mention its significance ?

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PART – B

(5×13=65 Marks)

11. a) What is integrity ? How integrity plays a major factor in work ethics ? Discuss with suitable examples.

(OR)

- b) What is spirituality ? What are the spiritual traits to be developed for excellence in an organization ? Discuss with suitable examples.

12. a) What is moral autonomy ? Compare and contrast the theories of moral autonomy by Kohlberg and Gilligan.

(OR)

- b) What is professionalism ? Discuss the motives for professionalism and the models for professional engineers.

13. a) Compare and contrast engineering experiments with standard experiments.

(OR)

- b) What is research ethics ? Discuss the models of research ethics with suitable examples.

14. a) Discuss the testing strategies for safety with suitable examples. Mention the difficulties in assessing the personal risks.

(OR)

- b) '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.

15. a) Discuss the ethical role of engineers in weapon development with suitable examples.

(OR)

- b) Discuss the ethical role of engineers as a consulting engineer with suitable examples.

PART – C

(1×15=15 Marks)

16. a) Explain the Challenger space shuttle disaster. Discuss the violation of moral, ethical and professional codes of standards in it. Write a conclusion to avoid such disaster in future.

(OR)

- b) Explain the Bhopal gas tragedy. Discuss the violation of moral, ethical and professional codes of standards in it. Write a conclusion to avoid such tragedy in future.