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**Question Paper Code : X20651**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020  
AND APRIL/MAY 2021

Fifth/Sixth/Seventh/Eighth Semester

Civil Engineering

GE 6075 – PROFESSIONAL ETHICS IN ENGINEERING

(Common to Agriculture Engineering/Automobile Engineering/Biomedical Engineering/Civil 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/Food Technology/Handloom and Textile Technology/Information Technology/Petroleum Engineering/Plastic Technology/Polymer Technology/Textile Chemistry/Textile Technology)

(Regulations 2013)

(Also common to PTGE 6075 – Professional Ethics in Engineering for B.E. (Part-Time) Fifth Semester – Civil Engineering – Sixth Semester – Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering – Regulations 2014)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

1. What is meant by integrity ?
2. Define spirituality.
3. What is engineering ethics ?
4. What is the basic concept of right action ?
5. What reasons lead to many repetitions of past mistakes ?
6. Give limitations of Code.
7. What is meant by risk ?
8. Define confidentiality.



9. Define appropriate technology.
10. What are the International rights listed by Donaldson ?

**PART – B****(5×13=65 Marks)**

11. a) i) Write short notes on Service Learning. **(6)**  
ii) Define work ethic. What are the elements of work ethics ? **(7)**  
(OR)
- b) Discuss the role of Yoga for professional excellence and stress management.
12. a) Briefly explain the three main levels of moral developments, developed by Gilligan.  
(OR)
- b) i) Discuss the models of professional roles. **(6)**  
ii) What is theory of Duty Ethics ? Write the Kant's and John Rawls modern theory of Duty ethics. **(7)**
13. a) What are the functions of code of ethics ?  
(OR)
- b) Discuss on 'Engineers as responsible experimenters'.
14. a) Explain the concept of Risk Benefit analysis with a suitable example.  
(OR)
- b) What are the main elements of IPR ? Discuss.
15. a) What is environmental ethics ? Explain its significance. Give some example of the environmental issues of concern to engineers.  
(OR)
- b) Write short notes on following :  
i) Engineers as Expert Witness. **(7)**  
ii) Engineers as Consulting Engineers. **(6)**

**PART – C****(1×15=15 Marks)**

16. a) Discuss the Ethical issues related to computer ethics.  
(OR)
- b) What are the internal responsibilities of engineers ? Discuss in detail about collective bargaining.
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