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Question Paper Code : 10755

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2025.

Sixth/Seventh/Eighth Semester

Aeronautical Engineering

GE 8076 – PROFESSIONAL ETHICS IN ENGINEERING

(Common to Aerospace Engineering/Agriculture Engineering/Automobile Engineering/ Biomedical Engineering/Civil Engineering/Computer Science and Engineering/Computer and Communication Engineering/Electrical and Electronics Engineering/Electronics and Communication Engineering/Electronics and Instrumentation Engineering/ Electronics and Tele communication Engineering/Environmental Engineering/ Geoinformatics Engineering/Industrial Engineering/ Industrial Engineering and Management/Instrumentation and Control Engineering/Manufacturing Engineering/Marine Engineering/Materials Science and Engineering/Mechanical Engineering/Mechanical Engineering (Sandwich)/ Mechanical and Automation Engineering/Mechatronics Engineering/Medical Engineering/Petrochemical Engineering/Production Engineering/ Robotics and Automation /Safety and Fire Engineering/Bio Technology/Chemical Engineering/Chemical and Electrochemical Engineering/Fashion Technology/Food Technology/ Handloom and Textile Technology/ Information Technology/ Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology/Plastic Technology/Polymer Technology/Textile Chemistry /Textile Technology)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention any two reason have/develop self confidence in a person.
2. List any four human values for an individual.
3. Brief on moral issues in a profession.
4. Brief on needs for Engineering ethics.
5. List any two types of ethics.

6. List any four Engineering societies that you are aware of has published code of ethics.
7. When conflict of interest arise?
8. Differentiate between patent and trade secret.
9. Who are hackers?
10. What is acid rain?

PART B — (5 × 13 = 65 marks)

11. (a) (i) Explain in detail how honesty is mirrored in many ways. (7)
 (ii) List the essential qualities of self-confident people. (6)
 Or
 (b) (i) Explain the features of courage. (7)
 (ii) Explain the techniques of stress management. (6)
12. (a) (i) Describe ethical egoism and predominant egoism with example. (7)
 (ii) Describe different forms of inquiry. (6)
 Or
 (b) (i) Is self-respect same as self esteem? Explain. (7)
 (ii) Discuss the emphasis of Prof. Lawrence of Kohlberg of moral development. (6)
13. (a) (i) Discuss a balanced outlook on law. (7)
 (ii) Categorize and compare the bribe and Gifts. (6)
 Or
 (b) (i) Discuss the main feature of Engineering experimentation with example. (7)
 (ii) Articulate the importance of learning from past. (6)
14. (a) Discuss the significance of collective Bargaining.
 Or
 (b) Enumerate on steps in effective implementation of safety in engineering process design.

15. (a) (i) List out factors that determine ethical and unethical behavior. (7)
(ii) Describe various issues to be addressed in computer ethics. (6)

Or

- (b) (i) Discuss the various global issues that have an impact on business. (7)
(ii) How do you decide what is ethical in experimentation at research laboratories or educational institutions? (6)

PART C — (1 × 15 = 15 marks)

16. (a) Analyse how engineers as Manager implement Ethical behaviour in an organization.

Or

- (b) Analyse the significance of corporate social responsibilities for engineers.
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