

Reg. No. :

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Question Paper Code : 80748

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2024.

Sixth/Seventh/Eighth Semester

Civil Engineering

GE 8076 – PROFESSIONAL ETHICS IN ENGINEERING

(Common to : Aeronautical Engineering/Aerospace Engineering/
Agriculture Engineering/Automobile Engineering/Biomedical Engineering/
Computer Science and Engineering/Computer and Communication
Engineering/Electrical and Electronics Engineering/Electronics and Communication
Engineering/Electronics and Instrumentation Engineering/Electronics and
Telecommunication Engineering/ Environmental Engineering/Geoinformatics
Engineering/Industrial Engineering/Industrial Engineering and
Management/Instrumentation and Control Engineering /Manufacturing
Engineering/Marine Engineering/Material Science and Engineering/Mechanical
Engineering/Mechanical Engineering (Sandwich)/ Mechanical and Automation
Engineering/Mechatronics Engineering/Medical Electronics/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. What are the objectives of professional ethics in engineering (Mention any two)?
2. Name the different branches of 'Tree of Human Values' (Mention any four).
3. What is the role of ethical theories for a skilled professional?

4. Mention any four models of professional roles.
5. Define the term 'Code of ethics'.
6. Give one example for 'Responsible experiment' carried out by an engineer.
7. List down any two methods of risk assessment.
8. Recall the types of responsibility.
9. Brief the term 'Computer Ethics'.
10. List any two ethical points related to 'Weapon Development'.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Explain the term professional integrity along with one example. (6)
- (ii) List and explain different types of work ethics. (7)

Or

- (b) (i) What is 'Service Learning'? Mention any four benefits of service learning. (6)
- (ii) What is meant by character? Explain any four methods to build character in work place. (7)

12. (a) (i) List the difference between Consensus and controversy. (5)
- (ii) Explain about Kohlberg's theory with example. (8)

Or

- (b) (i) Explain in detail Gilligan's theory with example. (7)
- (ii) Explain in detail about theory of right action. (6)

13. (a) (i) List and explain different categories of standards. (8)
- (ii) Explain the term 'BALANCED OUTLOOK ON LAW'. Mention any four features. (5)

Or

- (b) (i) List and explain any four essential roles of 'Codes of Ethics'. (8)
- (ii) What are Industrial Standards? List any five purposes of industrial standards. (5)

14. (a) (i) Explain in detail 'Copy rights' and 'Patents' with example. (8)
(ii) Explain the term collegiality and loyalty with example. (5)

Or

- (b) (i) Explain in detail 'Whistle-blowing' and 'Moon lighting' with example. (8)
(ii) List the difference between 'Professional rights' and 'Employee rights'. (5)
15. (a) (i) Discuss the concept of business ethics in context of technological development with example. (6)
(ii) What is MNC? List any six salient features of MNCs. (7)

Or

- (b) (i) Discuss the concept of Environmental ethics in context of sustainable development with suitable example. (6)
(ii) What is CSR? List any four roles in sustainable development of society. (7)

PART C — (1 × 15 = 15 marks)

16. (a) (i) List various activities involved in spirituality in work place. (7)
(ii) Discuss the ethical issues that need to be considered by an engineer to develop various online payment platforms. (8)

Or

- (b) (i) List various activities involved in spirituality for corporate excellence. (7)
(ii) Discuss the ethical issues involved by the employer and employee during Work From Home (WFH). Also mention, any model code of conduct of trainee employee during WFH. (8)