R22 Regulation *Subject code:4H7DA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Regular/Supplementary Examinations, October 2026

PROFESSIONAL ETHICS

(ECE)

Maximum Marks: 60 Date: 28.10.2026 Duration: 3 hours

Note:
1. **This question paper contains two parts A and B.**
2. **Part A is compulsory which carries 10 marks. Answer all questions in Part A.**
3. **Part B consists of 5 Units. Answer any one full question from each unit.**
4. **Each question carries 10 marks and may have a, b, c, d as sub questions.**

Part-A

All the following questions carry equal marks

		Marks	CO	BTL
1.a)	What is meant by personal ethics?	1M	1	1
b)	What is value education?	1M	1	2
c)	What is emotional intelligence?	1M	1	1
d)	What is moral pluralism?	1M	2	1
e)	What is virtue theory?	1M	2	1
f)	What is meant by professional conduct?	1M	3	1
g)	Why are codes of ethics important for engineers?	1M	3	2
h)	What is research misconduct?	1M	4	1
i)	What is sustainable development?	1M	5	1
j)	What is bioethics?	1M	5	1

Part-B

Answer one full question from each unit.

		Marks	CO	BTL
2	a) Explain the basic concepts of ethics and the idea of governing ethics in professional life.	5M	1	2
	b) Discuss the meaning of "thoughts of ethics" and the different dimensions of ethics. How can they shape an engineer's way of thinking?	5M		
	OR			
3	a) A technical professional must balance professional expectations with personal judgement. Discuss the role of life skills in handling such situations.	5M	1	3
	b) Explain how professional associations promote ethical awareness and responsible behaviour among engineers. Mention any two useful activities of such associations.	5M		
4	a) Explain rights theory and show how respect for the rights of others can guide an engineer's decision.	5M	2	3
	b) Compare virtue theory and utilitarianism with reference to a professional situation.	5M		

	OR			
5	a) Explain moral pluralism and discuss why different moral viewpoints may arise in professional decisions. b) Explain feminist consequentialism and its relevance to fairness and consequences in ethical decision-making.	5M 5M	2	3
6	a) An engineer is asked to approve a technical decision although some important information is still uncertain. Using the idea of professional responsibility, explain what factors should be considered before giving approval. b) A project team follows every written instruction but ignores a foreseeable risk to people affected by the project. Discuss the ethical responsibility of the engineers in this situation.	5M 5M	3	4
	OR			
7	a) An engineer faces a situation for which the professional code gives no direct answer. Explain how professional judgement, moral reasoning and concern for society can be used to reach a responsible decision. b) Two engineers disagree about whether a design decision is ethically acceptable. Explain how professional obligations and careful communication can help them resolve the disagreement.	5M 5M	3	4
8	a) Explain the roles of engineers and managers in an organization. Why can their responsibilities differ when making a professional decision? b) State the US government-wide definition of research misconduct and explain its main forms.	5M 5M	4	3
	OR			
9	a) Explain why responsible conduct in research is important for maintaining trust in research findings. Mention any four practices that support responsible research. b) Discuss the recent history of attention to research misconduct and explain why responsible conduct in research has become an important professional concern.	5M 5M	4	4
10	a) Explain the role of world summits in addressing global ethical concerns. Why is international cooperation important in such matters? b) Explain sustainable development and discuss how economic growth can be balanced with social well-being and environmental protection.	5M 5M	5	4
	OR			
11	a) A company introduces a new product in a competitive market and its advertising team wants to make claims that may mislead customers. Analyse the ethical issues involved and suggest responsible marketing practices. b) Explain Intellectual Property Rights and discuss why protection of intellectual creations is important for professionals and organizations.	4M 6M	5	4