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Question Paper Code : 41262

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2024

### Seventh Semester

## Civil Engineering

## GE 3791 – HUMAN VALUES AND ETHICS

(Common to All Branches)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What role does equality play in promoting justice within democratic societies?
2. Why is respect for all essential in promoting harmony in a democratic society?
3. What does secularism mean in the context of Indian democracy and governance?
4. How does the Indian Constitution promote non-discriminatory practices among various faiths?
5. What role does deductive reasoning play in testing scientific theories and predictions effectively?
6. How does the concept of scientific temper encourage rational thinking and evidence-based conclusions in research?
7. What are the main causes of gender bias in contemporary society and workplaces?
8. How do constitutional protections address issues of gender violence and discrimination in India?
9. What is the importance of transparency in scientific research for public trust and accountability?
10. How can unfair application of scientific inventions negatively impact society and its development?

PART B — (5 × 13 = 65 marks)

11. (a) Discuss the significance of pluralism and tolerance in maintaining social harmony within diverse democracies, referencing historical examples like the French Revolution and Indian Freedom Movement.

Or

- (b) Analyze the impact of citizen participation in governance on the development of democratic values, using the American Independence movement as a case study.

12. (a) Explain the significance of disassociating the state from religion in India's secular framework, highlighting its impact on social harmony and individual rights.

Or

- (b) Discuss how the acceptance of all faiths contributes to India's secular identity and promotes unity among diverse religious communities.

13. (a) Analyze a real-world example where inductive reasoning was used to develop a scientific hypothesis. Discuss how the hypothesis was tested and what conclusions were drawn from the results.

Or

- (b) Examine a case where skepticism and empiricism led to significant advancements in a scientific field. How did these approaches validate or challenge existing theories, and what impact did this have on scientific understanding.

14. (a) Propose effective solutions for addressing gender bias in society, considering ethical reasoning and constitutional protections that promote self-decision and inclusivity.

Or

- (b) Discuss how constitutional policies can be improved to better protect individuals from gender violence and discrimination, promoting inclusive practices within communities.

15. (a) Discuss the role and responsibilities of scientists in ensuring ethical use of scientific inventions for societal betterment and suggest solutions to prevent misuse.

Or

- (b) Analyze the importance of fairness in scientific pursuits and propose strategies to enhance transparency in research practices, benefiting society at large.

PART C — (1 × 15 = 15 marks)

16. (a) Analyze a case where scientific inventions, such as medical technology, have addressed gender bias and discrimination in healthcare. Discuss the ethical responsibilities of scientists in ensuring these inventions are applied fairly, and propose measures to enhance transparency and inclusivity in their development and distribution.

Or

- (b) Examine a situation where constitutional protections against gender violence were challenged by societal biases. Discuss the role of ethical reasoning and scientific evidence in informing policies, and propose solutions that ensure both fair application of scientific advancements and the protection of individual rights in addressing gender-related issues.
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