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Question Paper Code : 11530

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2026.

Seventh/Eighth Semester

Civil Engineering

GE3791 — HUMAN VALUES AND ETHICS

(Common to : Aeronautical Engineering/Aerospace Engineering/Automobile Engineering/Biomedical Engineering/Computer Science and Design/Computer Science and Engineering/Computer Science and Engineering (Artificial Intelligence and Machine Learning)/Computer Science and Engineering (Cyber Security)/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/Materials Science and Engineering/Mechanical Engineering/Mechanical and Automation Engineering/Mechatronics Engineering/Medical Electronics/Petrochemical Engineering/Production Engineering/Robotics and Automation/Safety and Fire Engineering/Agricultural Engineering/Artificial Intelligence and Data Science/Bio Technology/Biotechnology and Biochemical Engineering/Chemical Engineering/Chemical and Electrochemical Engineering/Computer Science and Business Systems/Fashion Technology/Food Technology/Handloom and Textile Technology/Information Technology/Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology/Plastic Technology/Textile Chemistry/Textile Technology)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the role of citizens in a democracy?
2. Imagine a democracy without citizen participation. Mention the problems it would face.
3. What policy measure can be designed to ensure non-discriminatory practices at workplaces?

4. Indian Constitution provides adequate safeguards for secularism. Justify.
5. How is inductive thinking applied in formulating scientific theories?
6. Write the steps to design a hypothesis for a classroom science experiment.
7. State the significance for examining the ethical dimensions of social discrimination.
8. How can constitutional protection help in addressing gender violence?
9. Why scientists should be accountable for the misuse of their inventions?
10. Transparency in scientific research can improve public trust. Substantiate.

PART B — (5 × 13 = 65 marks)

11. (a) Discuss in detail, the design of framework that promotes fraternity and tolerance in a multicultural democracy.

Or

- (b) Imagine a democracy without tolerance and respect for all. Suggest creative measures to restore democratic spirit.

12. (a) Evaluate the disassociation of the state from religion alone is sufficient to ensure secularism in practice.

Or

- (b) Analyze the various aspects of Indian interpretation of secularism is different from the Western model.

13. (a) Explain the design of simple experimental study using hypothesis testing to address a common social issue, outlining the steps involved.

Or

- (b) Empiricism and skepticism together form the backbone of modern science. Analyze.

14. (a) Apply ethical reasoning to explain how inclusive practices in education can help to reduce social discrimination.

Or

- (b) Innovative ethical code of conduct for workplaces ensures inclusivity and prevent discrimination. Elucidate.

15. (a) Discuss the essential elements of a framework to promote transparency and accountability in international scientific collaborations.

Or

- (b) Analyze the involvement of scientific inventions for societal progress and for unethical purposes.

PART C — (1 × 15 = 15 marks)

16. (a) Fraternity and justice are essential for democracy's survival. Discuss with reference to world democracies.

Or

- (b) Imagine you are tasked to create a global charter on Ethics in Scientific Research. Suggest the key principles and justify their importance.
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