

PG (NEP) EVEN SEMESTER EXAMINATION, 2023

PHYSICS

2nd Semester

Course No. : PHY - 556

(VBC : Introduction to ethics, responsibilities and values in profession)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer five questions, taking one from each unit)

UNIT - I

1. (a) Define ethics as a discipline. How ethical theories are classified? Explain each of them.
2+1+4 = 7
- (b) What is meant by code of ethics? Discuss in detail the regulatory, voluntary and professional ethics.
2+5 = 7
2. (a) Why human values are important? Describe five human values that are expected from all human beings.
2+5 = 7
- (b) Write brief note on the role of corporate social responsibility (CSR) in corporate governance. 3

(Turn Over)

(2)

- (c) Mention four long term benefits for firms that good governance can offer. 4

UNIT - II

3. Write the criteria for authorship in a research publication. What do you mean by the guest and ghost authors? Discuss the authorship issues/ disputes and the measures to resolve authorship issues. 4+3+7=14
4. Write notes on: 2x7=14
- (a) Scientific Misconduct
- (b) Good publication practices (GPP)

UNIT - III

5. What is self-evaluation? What are the benefits of self- evaluation? How do you evaluate yourself? 3+5+6=14
6. Define self-discipline and write its importance. Describe the ways to overcome self-criticism. 7+7=14

UNIT - IV

7. (a) Distinguish between sex and gender. Discuss the gender biases you observe around your society. Discuss how as an individual you can contribute in their eradication. 2+4+4=10

(3)

- (b) Discuss the issue of Gender bias in STEM 4
8. (a) Discuss the Gender issues in Academia. 7
- (b) Discuss the method of redressal of a complaint on sexual harassment of women at workplace in your institution. 7

UNIT - V

9. What is meant by carbon footprint? How are they estimated? What is the target set by India towards reduction of carbon footprint? What are the major contributors towards your carbon footprint? What measures are you taking to reduce them? 1+2+3+3+5
10. (a) How can we reconstruct the past climate-describe any two of the techniques? 4
- (b) What are the major indicators of climate change -discuss? Distinguish climate change from natural variability of climate. Why is climate change a matter of concern? 4+4+2=10
