



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution

Tiruchirappalli - 620 002

PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES – II (22PELPSII)

I. Fill in the Blanks (25 Questions)

1. Carl Friedrich Gauss was known as the "_____ of Mathematicians".
2. The formula for summing first 'n' natural numbers is _____.
3. Antoine Lavoisier is considered the father of _____.
4. The part of air responsible for combustion is _____.
5. Artificial Intelligence was defined as _____ in the article by GPT-3.
6. _____ was guillotined during the French Revolution.
7. The Israeli operation that used electronic warfare was called _____.
8. The primeval man's first chemical reaction was _____.
9. Gauss discovered a method by _____ numbers from opposite ends.
10. The golden ratio is approximately equal to _____.
11. The Fibonacci sequence begins with _____ and _____.
12. Vikram Chandra links coding to _____ in his essay.
13. The legend of Prometheus relates to the discovery of _____.
14. AI-generated text was published in _____ (newspaper/website).
15. Persuasive communication involves _____ and _____.
16. _____ is the branch of science that deals with celestial objects.
17. In a persuasive ad, the goal is to make the viewer take _____.
18. Software localization involves translating code into _____.
19. The deadly gas involved in the Bhopal tragedy was _____.
20. Lavoisier introduced the _____ system of measurement.
21. A pendulum's swing helps us to measure _____.
22. Vikram Chandra's essay was sourced from the book _____.
23. "All measurements of time are really measurements in _____."
24. In the story, the Israeli planes used EW to destroy _____.
25. GPT-3 is a model developed by _____.

II. 50-Word Questions (20 Questions)

1. Describe Gauss's unique way of summing natural numbers.
2. What is persuasive communication?
3. How did Lavoisier contribute to chemistry?
4. Explain the golden ratio.
5. What is the significance of AI according to GPT-3?
6. What does Vikram Chandra say about coding as art?

7. What happened in the Bhopal Gas Tragedy?
8. What are the functions of electronic warfare?
9. What is software localization?
10. Explain the significance of chemical reactions in daily life.
11. How is time related to space?
12. What role did Fibonacci play in mathematics?
13. What is meant by epistemology in the context of AI?
14. Describe the contributions of Vikram Chandra.
15. What are the persuasive techniques in advertising?
16. What are the key differences between debate and JAM?
17. Describe the concept of relativity as given in the text.
18. Who was Igor Tamm and what was his anecdote?
19. Explain the phrase “coding as creative art.”
20. What is the origin of the term “oxygen”?

III. 250-Word Questions (20 Questions)

1. Discuss the mathematical contributions of Carl Friedrich Gauss.
2. Describe the role of Antoine Lavoisier in the chemical revolution.
3. Explain how Artificial Intelligence may shape our future.
4. Analyze Vikram Chandra’s perspective on coding as a form of art.
5. Describe the principles and impact of electronic warfare.
6. Explain the importance of persuasive communication in media.
7. How do time and space relate according to the passage?
8. Write a note on the significance of Fibonacci in nature.
9. Evaluate the consequences of the Bhopal gas tragedy.
10. Discuss the need and impact of software localization in India.
11. What are the ethical concerns regarding Artificial Intelligence?
12. Compare and contrast human intelligence and artificial intelligence.
13. What do you understand by “the relativity of time and space”?
14. How can persuasive advertisements manipulate consumer behavior?
15. Write about the evolution of chemical sciences through history.
16. Explain the educational value of the anecdote of Igor Tamm.
17. Describe the applications of AI in education and healthcare.
18. Write about the impact of natural disasters involving chemicals.
19. Analyze the role of the golden ratio in aesthetics and design.
20. Summarize the major themes presented in Vikram Chandra’s essay.

IV. 500-Word Essay Questions (10 Questions)

1. Describe in detail the life, discoveries, and legacy of Carl Friedrich Gauss.
2. Discuss the development and applications of Artificial Intelligence.

3. Analyze the essay by Vikram Chandra and explain how coding can be considered an art form.
4. Write a detailed report on the Bhopal Gas Tragedy and its aftermath.
5. Discuss the importance of software localization and its relevance to India's digital future.
6. Write a comprehensive essay on the role of persuasive communication in advertising.
7. Analyze the scientific and sociopolitical contributions of Antoine Lavoisier.
8. Explore the concept of relativity in the context of time and space.
9. Explain the connection between mathematics and everyday life with examples from the textbook.
10. Write an argumentative essay on the advantages and limitations of AI in society.