



Academic Year 2023–2024

## **English correction** 3rd Year PF

### **Part I: Reading Comprehension**

#### **Task 1: Answer the following questions: 5pts (1pt\*1)**

1. The fundamental force discussed in the text is electromagnetism, which governs the behavior of electrically charged particles and currents.
2. Yes, electric charge determines interactions between particles.
3. The core concept underlying electromagnetism is the interaction between electric charges, currents, and fields.
4. Yes, magnetic fields are generated when charges are in motion.
5. Gauss's law describes the relationship between electric charges and electric fields, highlighting how charges interact with their surrounding space and influence the distribution of electric potential.

#### **Task 2: Choose the correct answer to each definition from the text: 5pts (1pt\*1)**

1. Electric charge
2. Electric current
3. Electromagnetism
4. Magnetic field
5. Electrical circuits

### **Part II: Mastery of Language**

#### **Task 1: Fill in the blanks with the words below: 5pts (1\*1)**

**Magnetic materials** interact with magnetic fields, experiencing what is known as the **magnetic force**. This **force**, arising from the alignment of magnetic moments within the material's structure, influences their **movement** and **behavior**, forming the basis for various applications in technology and industry.

### **Part III: Writing 5pts**

#### **General Idea : 1pt**

The text summarizes how electromagnetism, driven by electric charge, shapes particle behavior, including the creation of magnetic fields and their interaction with electric potential.

#### **Summary : 4pts**

Electromagnetism is the fundamental force governing particle behavior, based on the concept of electric charge. Charges create electric currents, generating magnetic fields, and interact with their surroundings, influencing the distribution of electric potential. These principles underpin phenomena like particle dynamics and electrical circuit functioning.