

Higher Normal School of Technological
Education of Skikda
Department of Technology
(1st semester 2023/2024)

4 groupe
First Exam (24/01/2024).
Technical English
Third-year classes
Duration: 2 hours.

Exam Correction:

- I. Reading Comprehension:** Read the Text carefully and answer the following questions (8 points).

Questions with answers:

1. What are the main disciplines of engineering mentioned in the text?
 - The main disciplines of engineering mentioned in the text: Mechanical, civil, electrical, and chemical engineering. **(1p.)**
2. What is the primary focus of mechanical engineering?
 - The primary focus of mechanical engineering is designing and analyzing mechanical systems like engines, machines and tools. **(1p.)**
3. Describe the field of electrical engineering.
 - Electrical engineering concentrates on electricity, electronics, and the development of electrical devices. **(1p.)**
4. Could you explain civil engineering using your own words?
 - Civil engineering involves designing and constructing infrastructure such as buildings, bridges, and transportation systems. **(1p.)**
5. How is engineering more than theoretical Knowledge?
 - Engineers use technical expertise and creativity to solve complex problems and develop innovative solutions. **(1p.)**
6. Name one aspect of everyday life influenced by engineering.
 - Possible answers could include: transportation systems, household appliances, communication devices, etc. **(1p.)**
7. Which engineering discipline deals with transforming raw materials into valuable products?
 - Chemical engineering specializes in transforming raw materials into valuable products and processes: **(1p.)**
8. How would you define engineering in a sentence?
 - Engineering is the application of scientific principles to design, create, and maintain structures, systems, and technologies that improve society. **(1p.)**

II. Vocabulary and technical terms

Match the following technical terms to their definitions (1.5 points).

1	2	3	4	5	6
a	f	d	e	b	c

III. Grammar and Sentence Structure (4.5 Points)

Part A: Convert the following sentences to passive voice. (3 points)

1. The team designed a new algorithm for data analysis.
 - A new algorithm for data analysis **was designed** by the team. (1p.)
2. Engineers will conduct experiments on the new material next week.
 - Experiments on the new **material will be conducted** by engineers next week. (1p.)
3. Engineers are developing a new road construction technique.
 - A new road construction technique **is being developed**. (1p.)

Part B: Fill in the gaps with the correct verb form. (1.5p.)

1. The company **developed** a prototype for the new technology last year. (0.5)
2. The company **will invest** in renewable energy technologies in the coming years. (0.5)
3. Engineers **design** new structures using advanced software. (0.5)

IV. Technical Writing: (6 points).