

English Language 1 MECHANICAL ENGINEERING: PRACTICE UNITS 1–5, QUESTIONS

	<u>PRACTICE UNIT 1</u>
1.	Explain the meaning of the words/phrases RÉSUMÉ , NICHE PHENOMENON and JOB SEEKERS . Support your explanation with details from the text.
2.	Describe the process of magnetic levitation and the functioning of the maglev train.
3.	Describe the advantages and downsides of the maglev technology.
4.	Explain the meaning of the words DRAG , RETRACTABLE and TO REPEL . Support your explanation with details from the text.
5.	Compare the benefits and shortcoming of maglev trains and high-speed rail (writing task).
6.	Present Simple (structure, use, provide example sentences, solving the tasks from the Practice Book)
7.	Present Progressive (structure, use, provide example sentences, solving the tasks from the Practice Book)
8.	Prepositions of time (solving the tasks from the Practice Book)

	<u>PRACTICE UNIT 2</u>
1.	Define the term CAD and discuss the advantages of using CAD in engineering.
2.	Describe the historical development of CAD.
3.	Describe the SolidWorks software (history, functioning).
4.	Explain the meaning of the words SKETCH , PROTOTYPE and PIONEER . Support your explanation with details from the text.
5.	Describe the possible uses of Catia and nTopology for engineering purposes (writing task).
6.	Countable and uncountable nouns (definitions, provide examples, solving the tasks from the Practice Book)
7.	Quantifiers a little/little and a few/few (definitions, provide examples, solving the tasks from the Practice Book)
8.	Past Simple (structure, use, provide example sentences, solving the tasks from the Practice Book)
9.	Past Progressive (structure, use, provide example sentences, solving the tasks from the Practice Book)
10.	Past Perfect (structure, use, provide example sentences, solving the tasks from the Practice Book)

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	PRACTICE UNIT 3
1.	Describe the development of the imperial and metric systems.
2.	Describe at least TWO interesting events from Newton's life.
3.	Describe the meaning of the words GALLOWS , BODKIN and PLAGUE . Support your explanation with details from the text.
4.	Report on the importance of Newton's work for modern mechanical engineering (writing task).
5.	Type 0 conditional sentences (structure, use, provide two example sentences, solving the tasks from the Practice Book)*
6.	Type 1 conditional sentences (structure, use, provide two example sentences, solving the tasks from the Practice Book)*
7.	Type 2 conditional sentences (structure, use, provide two example sentences, solving the tasks from the Practice Book)*
8.	Type 3 conditional sentences (structure, use, provide two example sentences, solving the tasks from the Practice Book)*
9.	Prepositions (solving the tasks from the Practice Book)

*Odgovori na pitanja broj 5, 6, 7 i 8 podrazumevaju kombinovanje gradiva iz udžbenika (str. 38-39) i gradiva iz praktikuma (str. 36-37).

	PRACTICE UNIT 4
1.	Explain how hydrogen can be used as a fuel and define the essence of the three types of hydrogen.
2.	Define the term carbon footprint and explain how it can be calculated.
3.	Elaborate on the data from the text on the carbon footprint of richer and poorer countries and compare the mentioned countries.
4.	Report on the possibilities of reducing the carbon footprint of Serbia (writing task).
5.	Present Perfect (structure, use, provide example sentences, solving the tasks from the Practice Book)
6.	Present Perfect Progressive (structure, use, provide example sentences, solving the tasks from the Practice Book)
7.	Expressing the future in English (specific tenses/constructions, use, provide example sentences, solving the tasks from the Practice Book)

	PRACTICE UNIT 5
1.	Provide the terms for geometric shapes and figures and provide adjectives derived from these nouns.

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2.	Define what a triangle is and provide a definition of the Pythagorean theorem.
3.	State the types of triangles and provide their definitions.
4.	Discuss the early role of technology in mathematics and provide examples of first mathematical tools.
5.	Define Appel and Haken's four-colour theorem and elaborate on its origin and computer-assisted proof.
6.	Discuss the role of artificial intelligence in modern mathematics and explain the work of the Lean community.
7.	Describe the meaning of the words ABACUS , THEOREM and TO MINE . Support your explanation with details from the text.
8.	Elaborate on the importance of mathematics in the engineering profession (writing task).
9.	Tenses in context (solving the tasks from the Practice Book)
10.	Prepositions – revision (solving the tasks from the Practice Book)