

ENGLISH TEST – UPB

Total test time – 100 minutes

Section 1 – Answer (in min. 125 words) to the question below. Provide arguments and examples in support of your statements.

What is the role of the bachelor level engineering education in the UNIVERSITY POLITEHNICA OF BUCHAREST in your PERSONAL career plan?!

Grading criteria: task fulfilment, including the minimum number of words required – max. 7 points; organization, clarity, coherence of the text – max. 7 points; language: accuracy, lexical range and complexity – max. 6 points. **Total number of points/Section 1 = 20.**

Section 2 - see 2.a., 2.b., 2.c. below. **Total number of points = 60.**

2.a. Write the correct form of the verbs 1 - 10 in brackets in the **ANSWER BOX – 2.a.** provided below. 10 items x 2 points (only for correct answers) = **20** points.

Last week four researchers 1 // (work out) the design of a revolutionary type of car. Now, they 2 // (look for) somebody who 3 // (be) willing to provide the capital necessary to build a prototype. Several companies 4 // (express) an interest in view of the possible gains.

You 5 // (write) an outstanding cover letter and CV! Lately, our company's recruiters 6 // (read) hundreds of job applications and they eventually 7 // (narrow) the pool to their top three picks. Congratulations, you 8 // (be) one of them!

Why you 9 // (think) there 10 // (be) not so many women working in electrical engineering and mechanical engineering?!

ANSWER BOX – 2.a.

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2.b. - Gaps 1 – 10 in the texts below have to be completed with the appropriate words formed from the **ROOT WORD** given in between brackets. Write your answers, without any abbreviation, in the **ANSWER BOX – 2.b.** provided below. **10 gaps x 2 points (only for correct answers) = 20 points.**

The original product 1 // (SPECIFY) for the YMC – 77 vacuum
..... 2 // (CLEAN) do not reflect all the correct quality
..... 3 // (REQUIRE).

You have been asked to carry out an 4 // (INSPECT) of a bridge, a
tower or some other public 5 // (BUILD) to check that it is substantially
free from flaw, which means it is 6 // (STRUCTURE) sound.

You have received a review of the 's 7 // (MANUFACTURE)
claims regarding features and 8 // (PERFORM) .

..... 9 // (SCIENCE) gather data then study it for its meaning, while
computers process data to create 10 // (INFORM) .

ANSWER BOX – 2.b.

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2.c. – Choose the **ONE** correct answer and mark its corresponding letter in the ANSWER BOX – 2.c. below. **10 items x 2 points = 20 points.**

1. It sort of happened accident.
a. by b. in c. because

2. Thus, product users can see that the company have confidence its own products.
a. of b. in c. as

3. They always ask questions : *how* and *why*.
a. of b. say c. such as

4. Interviewer: *How do you generally develop a new product?!*
Engineer: *Well, first of all, we an idea.*
a. need b. ought c. dare

5. The job a lot easier in recent years by special computer programs that can slack time calculations for us.

a. had made b. has been made c. has made

6. How much do companies spend R&D?

a. to b. as c. on

7. In this department, some analysts compare the budgets –
..... from government and from the private sector, that are
available every year.

a. both b. also c. and

8. We define risk as the extent which a company is prepared
to ‘gamble’ on the future success of the products it is developing.

a. at b. to c. in

9. I still have doubts a number of things, for example the
budget for the advertising campaign.

a. of b. in c. about

10. A modern heating system uses the minimum of resources necessary
for its effectiveness.

a. economical b. economic c. economy

ANSWER BOX – 2.c.

1	2	3	4	5	6	7	8	9	10
...									

Section 3 - Read the following quote and solve the two test tasks below:

“As engineers, we were going to be in a position to change the world – not just study it.”
(Henry Petroski, American engineer)

3.a. Explain - in your own words - the meaning of this quote. Write **min.** 75 words.

3.b. Express your opinion, agreement/disagreement etc. about it; provide arguments and/or examples in support of your ideas. Write **min.** 75 words

Grading criteria (total max. 20 points): task fulfilment, including the minimum number of words required per each task – max. 7 points; organization, clarity, coherence of the text – max. 7 points; language: accuracy, lexical range and complexity – max. 6 points.

END OF TEST