

**МОДУЛЬНА КОНТРОЛЬНА РОБОТА № 1**  
**З дисципліни «Фахова іноземна мова»**  
Спеціальність: 172 Телекомунікації та радіотехніка

**1. Complete the sentence.**

**Brass is...**

- an alloy formed by mixing iron and carbon
- a combination of different materials
- an alloy formed by mixing copper and zinc

**Steel is ...**

- an alloy formed by mixing iron and carbon
- an alloy formed by mixing copper and zinc
- a type of composite material used in engineering

**2. Choose the right answer.**

**Technical drawing is necessary to...**

- make a scale of the product
- draw a product
- let a producer understand the requirements

**The difference of potential between two points on a conductor...**

- Ampere
- Coulomb
- Volt

**3. Choose the best variant.**

**The stabilizer(s) which prevent (s) an up-and-down motion of the nose:**

- Horizontal and vertical
- Horizontal
- Vertical

**A small change that is made to something or a way of doing something:**

- Autogyro
- Maneuver
- Adjustment

**4. Complete the statement.**

**The stabilizer which keeps the nose of the plane from swinging from side to side...**

- vertical
- horizontal
- the stabilizers

**When a pilot maneuvers an aircraft, he or she rotates on ...**

- longitudinal axis
- lateral axis

- one of the axes
- vertical axis

**5. Choose the appropriate tense form.**

**The train ... at 12.30**

- will arrive
- is arriving
- arrives

**Look at these clouds, it ... in a few minutes.**

- will rain
- is going to rain
- going to rain

**On Friday at 8 o'clock I ... my friends.**

- meet
- am going to meet
- am meeting

**What ...you ... when I phoned you?**

- did ...do
- were ... doing
- was ... doing

**... your sister sometimes ...angry with you?**

- Does ... get
- Does ... got
- Do ...get

**Yesterday first, I ... to meet you and then ... the truth.**

- decided/tell
- decided/told
- decide/told

**6. Choose the right modal verbs.**

**This is a hospital. You ... smoke here.**

- needn't
- don't have to
- mustn't

**Take an umbrella. It ... rain later.**

- need
- might
- should

**You ... leave work at 3.30 today (permission)**

- can
- will
- might

**The windows look clean. You ... wash them (absence of necessity)**

- are not to
- don't have to
- might not

**7. Choose the necessary word from the brackets to the underlined ones.**

He must be at home. (possible; obliged)

You mustn't smoke here (possible; obliged)

You don't have to hurry. We have time. (not necessary; not possible)

**8. What is the difference between the words:**

- *covering* and *cover the distance*
- *light aircraft* and *lighter-than-air*
- *take-off* and *take aloft*

**9. Read the text and fill the gaps with the necessary information (1-6).**

When a machine or a tool is made, the most suitable material must be chosen by considering its properties, 1) ... . The main types of materials used in mechanical engineering are metals, polymer materials, ceramics and composite materials. The most commonly used materials are metals, 2)... . They can be used in their pure form or mixed with other elements. In this second case we have an **alloy** and it is used to improve some properties of the metals. The most commonly used **ferrous metals** are iron and alloys which use iron. Because iron is soft and pasty it is not suitable 3) ... , so a small amount of carbon is added to it to make **steel** alloy.

Non-ferrous metals contain little or no **iron**. The most common non-ferrous metals used in mechanics are **copper, zinc, tin** and **aluminium**. Some common non-ferrous alloys are **brass** (formed by mixing copper and zinc), **bronze** (formed by mixing copper and tin) and other aluminium alloys 4) ... . Other examples of materials used in mechanical engineering are **plastic** and **rubber**.

**PVC** or polyvinyl chloride is a type of plastic and is used to **insulate wires** and **cables**. Rubber is a polymer and its best property is elasticity, as it returns 5) ... .

**Ceramic** materials are good insulators: hard, resistant and strong, but **brittle**. Composite materials are made up of two or more materials combined 6) ... .

**Concrete** is reinforced with steel and is used in building engineering.

1. which are used in the aircraft industry;
2. which can be divided into ferrous and non-ferrous;
3. to its original size and shape after deformation;
4. which can be classified as mechanical, thermal, electrical and chemical';
5. to improve their mechanical properties;
6. to be used as a structural material.

**10. Read the text again and find words to their definitions.**

- a combination of different metals;
- a type of plastic used for insulation ;
- an alloy formed by mixing iron and carbon;
- an alloy formed by mixing copper and zinc;
- metals containing iron;
- a composite material used to build houses;
- a metal not suitable as structural material;
- a good insulator but brittle.

**11. Read the text again and answer the questions.**

1. What is the basic classification of metals?
2. What are the characteristics of iron?
3. Why are alloys created?
4. Which materials are good insulators?
5. Is steel an alloy? Which metal does it contain?

- 12. Write about the advantages and disadvantages of helicopter and the aircraft?  
(50-70 words)**
- 13. Write down three remarkable facts (which you remember) from the history of aviation (5-7 sentences).**
- 14. Name the main parts of the aircraft and give a short characteristic to them (5-7 sentences).**

**Розробник:** старший викладач Олена СКІПАЛЬСЬКА