

## **The short test 1 - Mechanics A, B and C**

### **1. Match the word with its definition:**

1.	kinematics	A	is a technology and applied science using engineering, chemistry, and other sciences involving the mechanical properties and use of liquids.
2.	dynamics	B	is the branch of fluid mechanics that studies "fluids at rest and the pressure in a fluid or exerted by a fluid on an immersed body".
3.	hydraulics	C	is a subfield of physics that describes the motion of objects without considering the forces that cause them to move.
4.	hydrostatics	D	is the branch of fluid mechanics that deals with flows having significant changes in fluid density.
5.	gas dynamics	E	is concerned with the relationship between motion of bodies and its causes, namely the forces acting on the bodies and the properties of the bodies, particularly mass and moment of inertia.
Answers:			
1.			
2.			
3.			
4.			
5.			

### **2. Use the words from the box in the right position in the sentences:**

torque	disciplines	displacements	environment	motions
--------	-------------	---------------	-------------	---------

Mechanics is the area of physics concerned with the \_\_\_\_\_ of macroscopic objects

Forces applied to objects result in \_\_\_\_\_, or changes of an object's position relative to its environment. \_\_\_\_\_ of mechanics are: statics, kinematics and dynamics. Statics is the branch of mechanics that is concerned with the analysis of loads (force and \_\_\_\_\_ or "moment") acting on physical systems that do not experience an acceleration, but rather, are in static equilibrium with their \_\_\_\_\_.

### **3. Answer the question:**

1. What is kinematics, as a field of study, often referred to as?

---