

## TEST FINALE

### 1) Activation energy:

- is the least energy of the reagents
- is the energy spread by reaction
- is the least energy that reagents must possess to give place to a reaction
- is the energy required to occur when it's endothermic.

### 2) What does give power to a missile?

- the force of gravity of Earth
- the very strong esothermic reaction of combustion of hydrogen in the presence of oxygen
- the spark originated by the flowing of electric current

### 3) Why a reaction, thermodynamically possible, like that of the synthesis of water starting from hydrogen and oxygen, needs to be primed?

- because it's an endothermic reaction
- because it's the needed energy of activations
- because it's a reaction of combustion

### 4) Which of the following statements are true?

- a rocket may be considered an isolated system because it is self governing in flying and it needs nothing from the outside
- the rocket takes advantage of the air friction to be able to fly
- the rocket uses the air push (pressure) to be able to fly
- the rocket leaves for the expulsion of the gases produced inside

### 5) The speed of a satellite, revolving round a planet, doesn't depend on:

- the satellite mass
- the planet mass
- the planet radius
- the satellite height

### 6) A satellite to be able to revolve round the Earth must get a speed of

- less than 100km/h
- less than 7,8 km/s
- between 7,8 km/s and 11,8 km/s
- more than 11,8 km /s

### 7) To succeed in switching the propeller we use a nichel crome wire crossed by an electric current $I$ the wire becomes white hot and heated. The dissolved power owing to the Joule effect is

- $V \cdot I \cdot t$
- $I^2 \cdot R$
- $\frac{1}{2} m v^2$
- $V / I$

### 8) To process the mathematical pattern, we have supposed:

- initial variables and relations between them

- variables and initial constants
- variables and initial and final constants and relations between them

**9) The comparison with the experimental reality:**

- had an influence upon the reformulation of the pattern
- didn't have an influence upon the reformulation of the pattern
- the experiment hasn't allowed a reformulation of the pattern

**10) The initial variables we have supposed are:**

- $\Delta h$  e P
- V, I, R
- $\Delta h$ , V, R