

Question 1

When two forces act along the same direction on an object, then the net force acting on the object is ____ of the two forces.

- A) the average
- B) less than the sum
- C) greater than the sum
- D) equal to the sum

Question 2

Two objects, A and B, one over the other, are moving with the same velocity. Which of the following statements is correct?

- A) Friction on A is in the forward direction.
- B) Friction on A is in the backward direction.
- C) Friction on B is in the forward direction.
- D) No friction acts between A and B.

Question 3

If an object oscillates 80 times per second, it is said to have a frequency of ____.

- A) 80 sec
- B) 80 Hz
- C) 80 hr
- D) 0.0125 Hz

Question 4

A tester is used to test the conduction of electricity through two liquids, labelled A and B. It is found that the bulb of the tester glows bright for liquid A, while it glows very dimly for liquid B. We can conclude that liquid A is a better conductor than liquid B.

- A) True
- B) False

Question 5

Tremors on the earth can also be caused when a volcano erupts, or a meteor hits the earth, or an underground nuclear explosion is carried out.

- A) True
- B) False

Question 6

An aluminium foil with a hole is placed just below the base of a candle flame and above the melted wax. The candle is extinguished because the _____.

- A) aluminium foil cuts off the supply of oxygen to the burning flame
- B) aluminium foil cuts off the flow of molten wax to the wick
- C) aluminium foil conducts away the heat, and the temperature falls below ignition temperature
- D) aluminium foil cuts off the supply of nitrogen

Question 7

Which of the following is not an attribute of a good domestic fuel?

- A) Fairly cheap and easily available
- B) Moderate rate of combustion
- C) Low calorific value
- D) Safe to handle, store and transport

Question 8

The reaction

$\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$ is a _____ reaction.

- A) decomposition
- B) displacement
- C) combination
- D) combustion

Question 9

The development of a moustache at the age of 11-18 is a sign of _____.

- A) maturity
- B) adolescence
- C) hormonal imbalance
- D) puberty

Question 10

Which of the following micro-organism has the ability to fix nitrogen?

- A) Virus
- B) Euglena
- C) Rhizobium
- D) Amoeba