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FINAL EXIMINATION SEMSTER 1

SMP DARMA BANGSA BANDAR LAMPUNG

ACADEMIC YEAR 2021/2022

Mata Pelajaran / Subject Matter	:	Physics
Kelas / Class	:	VIII
Semester	:	1
Hari & Tgl. Pelaksanaan / Date	:	December 6th, 2021
Name	:	

A. Multiple choice

Choose the correct answer of the following questions

1. What is the unit of measure for force?
   a. Ampere
   b. Newton
   c. Seconds
   d. Joule

2. Newton's first Law of Motion states that if there is no net force acting on an object it will:
   a. remain at rest
   b. have no acceleration
   c. move with constant velocity
   d. all of the above

3. What does Newton's Second Law of Motion state?
   a. a = m.F
   b. F = m.a
   c. $F = \frac{m}{a}$
   d. m = F.a

4. How much net force is required to accelerate a 2000 kg car at 3.00 m/s^2?
   a. 2000 N
   b. 6000 N
   c. 4000 N
   d. 8000 N

5. If you apply a net force of 3 N on 0,1 kg -box, what is the acceleration of the box?
   a. 5 m/s^2
   b. 20 m/s^2
   c. 10 m/s^2
   d. 30 m/s^2

6. Which of the following is contact force?
   a. Electrical force
   b. Friction
   c. Magnetic force
   d. Gravitational Force

7. Which of the following are the effects of force, ***except***?
   a. to change the direction
   b. to move a rest object
   c. to stop a moving object
   d. to change the color of flower

LIVEWORKSHEETS

This options for Questions no 9 - 12

A. Lever (tuas) **B. Pulley (katrol)** **C. Wheel & Axle**

D. Inclined Plane **E. Wedge**

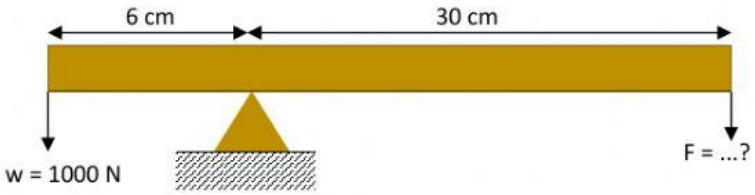
8. These two parts act as one simple machine. They roll and are found on cars, bikes and wheelbarrows. A B C D E

9. This simple machine can be used to lift a weight. It has a fulcrum, or pivot point, which can be located in the centre, near the end or at the end. A B C D E

10. It is a type of simple machine that uses a wheel with a groove in it and a rope. The rope fits into the groove and one end of the rope goes around the load. You pull on the other end. A B C D E

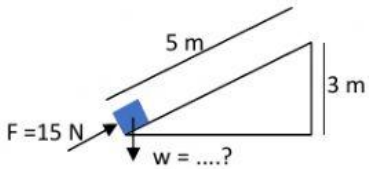
11. This simple machine is a flat surface with one end higher than the other. This allows for heavy objects to slide up to a higher point rather than be lifted. It is generally easier to slide something than to lift it.. A B C D E

12. To make the lever on the figure below in equilibrium condition, the falue of force F is ...



a. 200 N
b. 500 N
c. 3000 N
d. 9000 N

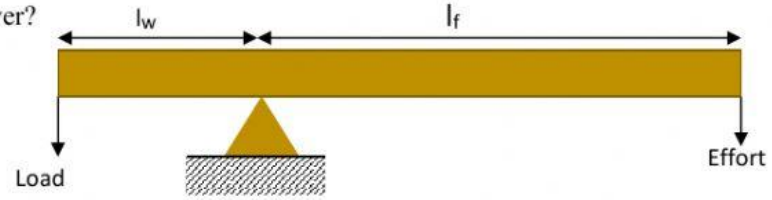
13. Look the figure below. An object is pushed by force of 15 N to rise 3 m high. The weight of the object is ...



a. 100 N
b. 75 N
c. 50 N
d. 25 N

LIVEWORKSHEETS

14. What should you do to reduce the amount of effort needed to lift something using a first class lever?



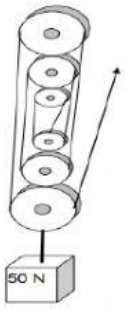
a. move the fulcrum to the middle of the lever

b. move the fulcrum closer to the load

c. move the fulcrum closer to the effort

15. Among the following which pulley has the greatest the Mechanical Advantage?

a.



b.



c.



LIVEWORKSHEETS