

The Brigade School Revision Test (2020-21) Paper 1

Total points 6/7 ?

Class 10
Marks 7

Subject: Physics

Simple Machines

0 of 0 points

Name: *

Manan Y Mehta

Class: *

10 A

School: *

TBSG

Physics Paper 1

6 of 7 points

Objective paper

10 Marks



✓ 1. A simple machine can act as a force multiplier and a speed multiplier simultaneously in the same machine. * 1/1

☐ True

☒ False



✗ 2. With reference to the terms mechanical advantage, velocity ratio and efficiency of a machine, name the term that will not change for a machine of a given design * 0/1

☒ Mechanical Advantage

☐ Velocity Ratio

☐ Efficiency



Correct answer

☒ Velocity Ratio

✓ 3. The mechanical advantage of a lever of the second order always * 1/1

☒ Greater than 1

☐ Equal to 1

☐ Less than 1



Feedback

The mechanical advantage of a lever of the second order is always greater than one because effort arm is greater than load arm.



- ✓ 4. A crowbar of length 1.2 m has its fulcrum at a distance of 0.2 m from load. Calculate the mechanical advantage of crowbar. * 2/2

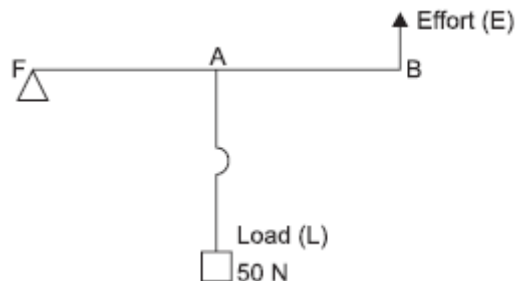
- ☐ 0.2
- ☒ 5
- ☐ 6
- ☐ 2.4



Feedback

Given: Load arm = 0.2 m, Effort arm = 1.20 m – 0.2 m = 1.00 m
 Mechanical advantage of crowbar = EA/LA = 1.00/0.2 = 5

- ✓ 5 (a) The diagram below is a representation of class ____ lever. * 1/1



- ☐ Class 1
- ☒ Class 2
- ☐ Class 3
- ☐ It is not a lever



Feedback

class 2 lever because load lies between fulcrum and effort



✓ 5 (b) Which of the following is an example of the class of lever that you have mentioned in 5 (a). * 1/1

- ☐ crowbar
- ☒ bottle opener
- ☐ see saw
- ☐ fishing rod



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