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Department of Physics
PHY 131:
Tutorial Test Assignment 2



UNIVERSITEIT VAN PRETORIA
 UNIVERSITY OF PRETORIA
 YUNIBESITHI YA PRETORIA
 Faculty of Natural and Agricultural Sciences

Due Date and Time: 03/04/2022 at 11:30 PM
 Examiners: Dr. Doty F. Langa
 Dr. Firo Jaffer

Total: 20

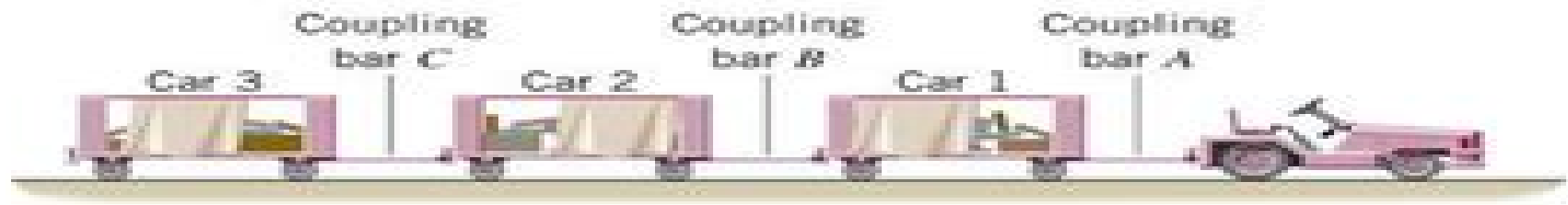
Please read the following carefully.

1. Where applicable you need to draw the necessary diagrams (e.g. free-body diagrams).
2. Your answer needs to be written in a systematic and logical fashion. You must show that you understand and can use the relevant physics. **Only substitute numerical values in the final step of calculation! A correct answer does not imply that you will receive full marks.** Round your answers to at least two decimal places.
3. A correctly completed Declaration of Originality must be submitted with your tutorial test assignment.
4. All exam regulations of the University of Pretoria apply during this tutorial test assignment and any contravention will be treated in a serious manner.
5. If any misconduct with respect to this tutorial test assignment is reported, you will receive a mark of zero and will have to attend a formal disciplinary hearing, which may result in your expulsion from the University of Pretoria.

QUESTION 1 [10]

At an airport, luggage is unloaded from a plane into the three cars of a luggage carrier, as the drawing shows. The acceleration of the carrier is 0.12 m/s^2 , and friction is negligible. The coupling bars have negligible mass. Calculate by how much would the tension in each of the coupling bars A, B, and C change if 39 kg of luggage were removed from car 2 and placed in (a) car 1 and (b) car 3! If the tension changes, specify whether it increases or decreases.

(10)



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Michal Rosen-Zvi



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