Question 4.15:

Two bodies of masses 10 kg and 20 kg respectively kept on a smooth, horizontal surface are tied to the ends of a light string. A horizontal force F = 600 N is applied to (i) A, (ii) B along the direction of string. What is the tension in the string in each case?

Answer 4.15:

Horizontal force, $F = 600$ N

Mass of body A, $m_1 = 10$ kg and Mass of body B, $m_2 = 20$ kg

Total mass of the system, $m = m_1 + m_2 = 30$ kg

Using Newton's second law of motion, the acceleration (a) produced in the system can be calculated as: $F = ma$

$$\therefore a = \frac{F}{m} = \frac{600}{30} = 20\ m/s^2$$

When force F is applied on body A:

The equation of motion can be written as: $F - T = m_1 a$

$\therefore T = F - m_1 a = 600 - 10 \times 20 = 400$ N ... (i)

When force F is applied on body B:

The equation of motion can be written as: $F - T = m^2 a$

$T = F - m^2 a$

$\therefore T = 600 - 20 \times 20 = 200$ N ... (ii)

Question 4.16:

Two masses 8 kg and 12 kg are connected at the two ends of a light inextensible string that goes over a frictionless pulley. Find the acceleration of the masses, and the tension in the string when the masses are released.

Answer 4.16:

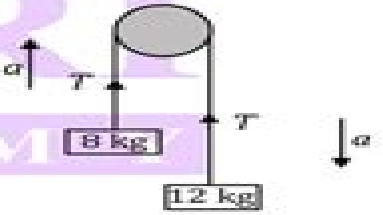
The given system of two masses and a pulley can be represented as shown in the following figure:

Smaller mass, $m_1 = 8$ kg

Larger mass, $m_2 = 12$ kg

Tension in the string $= T$

Mass m_2, owing to its weight, moves downward with acceleration a, and mass m_1 moves upward.



Applying Newton's second law of motion to the system of each mass:

For mass m_1: The equation of motion can be written as:

$T - m_1 g = ma$ ... (i)

For mass m_2: The equation of motion can be written as:

$m_2 g - T = m_2 a$ ... (ii)

Adding equations (i) and (ii), we get: $(m_2 - m_1)g = (m_2 - m_1)a$

$$\therefore a = \left(\frac{m_2 - m_1}{m_2 + m_1}\right) g \quad \text{... (iii)}$$

$$= \left(\frac{12 - 8}{12 + 8}\right) \times 10 = \frac{4}{20} \times 10 = 2\ m/s^2$$

Mastering Physics Chapter 4 Solutions

Michael Hoelscher

Mastering Physics Chapter 4 Solutions:

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mastering Physics Chapter 4 Solutions**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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