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FORCES

Total Marks: 25

Duration: 0 hours, 25 minutes

Instructions to test takers

- 1. Answer all the questions in this paper
- All the answers for the questions in this paper will be found on Study Star (<u>www.studystar.me</u>)
- 3. Using the answers on the website, mark yourself truthfully and carefully.

Turn this page, time yourself and begin the test

Section A [10 marks]

- 1. Which of the following is the best definition of a newton?
 - a. A force which accelerates for 1 m/s².
 - b. A force which when applied to a body of 1kg mass makes the body accelerate for 1N.
 - c. A force which when applied to a body of 1 kg mass makes the body accelerate for 1m/s².
- 2. Which of the following is not an effect of a force?
 - a. Makes the body change its mass
 - b. Makes the body change its size
 - c. Makes the body change its direction of travel
- 3. What do you understand by the term inertia?
 - a. The resistance to the change in the state of uniform motion of a substance
 - b. The reluctance to the change in the state of mass of a body
 - c. The reluctance to the state of motion of a substance
- 4. Which law of motion is considered to be the law of inertia?
 - a. Newton's first law of motion
 - b. Newton's second law of motion
 - c. Newton's third law of motion

5.	Inertia depends	on
	a. Weight	
	b. Mass	

- c. Force
- 6. Which of the following is newton's third law of motion?
 - a. The force acting = the force reacting
 - b. The force moving = the force removing
 - c. All forces in a closed system are equal

7.	Constant velocity is always equal to	
	a. 0 m/s	

- b. 0 m/s²
- c. 0 m
- 8. A body with a mass of 3kg was accelerating at 5m/s². What was its resultant force?
 - a. 0.6 N
 - b. 3N

- c. 15N
- 9. Which newton's law of motion always has an action and a reaction?
 - a. Newton's first law of motion
 - b. Newton's second law of motion
 - c. Newton's third law of motion
- 10. Calculate the resultant force of a body which has a mass of 12kg and is accelerating at 3 m/s².
 - a. 4 N
 - b. 0.25 N
 - c. 36 N

Section B [5 marks]

11. The reluctance to the change in the state of motion of	a body is called
12. The force which opposes the sliding motion of two or n which are in contact is called	nore surfaces
13.A force which when applied to a body of 1kg mass mal accelerate for 1m/s ² is called	kes the body
14. Passengers on a moving vehicle are always pushed for the brakes are applied. This is an example of15. Which force produces unnecessary heat?	orwards when
Section C [10 marks]	
16. State three effects of a force.17. State newton's second law of motion.18. State three usefulness of friction.19. State two methods of reducing friction.20. State newton's first law of motion.	[3] [1] [3] [2] [1]



A top student's secret tool