

CLASS IX GUESS PAPER SCIENCE

Force and Laws of Motion

1.	The balanced forces can –							
	a.	produce motion in a stationary body.	b.	Stop a moving body.				
	c.	Change the shape o a body.	d.	All of the above.				
2.	То	move a stationary object we have to push it w	vith a	a force that	an t	he opposing force of friction.		
	a.	Greater b. equal	c.	less	d.	none.		
3.	Which of the following is considered as a measure of the quantity of motion of a body –							
	a.	Mass b. force	c.	momentum	d.	weight		
4.	The pair of equal and opposite forces in Newton's third law of motion act –							
	a.	always on same object.	b.	always on the differe	nt d	object.		
	c.	never on different objects.	d.	either on same or on	dif	ferent objects.		
5.	Th	e SI unit of force, newton is equivalent to whic	ch of	the following –				
	a.	kgm/s b. kgm/s ²	с.	Nm ² /kg ²	d.	N/m ² .		
6.	The momentum of an object of mass m moving with a velocity v is-							
	a.	mv^2 , b. $\frac{1}{2}mv^2$,	с.	mv,	d.	$(mv)^2$.		
7.	Which of the following is not correct statement –							
	a.	A force can move a stationary body.						
	b. A force can change the speed of a moving body.							
	c. A force can change the mass of a body.							
	d. A force can change the shape of a body.							
8.	On which of the following, the inertia of a body depends?							
	a.	Mass, b. weight,	с.	velocity,	d.	force.		
9.	What stands for p in $p = m v$?							
	a.	power, b. momentum,	с.	pressure,	d.	potential energy.		
10.	Th	e force required to stop a moving body is dire	ctly p	proportional to –				
	a.	mass, b. velocity, c. bo	th m	ass and velocity,	d.	neither mass nor velocity.		
11.	 The quantity of motion in a body depends on the – 							
	a.	mass, b. velocity, c. bo	th m	ass and velocity,	d.	neither mass nor velocity.		
12. A toy car of weight 200g is moving with a speed of 5m/s. its momentum is –								
	a.	1000kgm/s, b. 1gm/s,	с.	1kgm/s,	d.	none of them.		
13.	. A ball of mass 500g is thrown vertically upwards with a speed of 10m/s. what would be its momentum at							
	the highest point of its flight –							
	a.	5kgm/s, b. 50gm/s,	с.	5000kgm/s,	d.	none of them.		

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14.	The force required to impart to a of 1500kg is –	car a velocity of 30r	n/s in 10 sec starting fi	rom rest if the mass of the car is				
	a4500N, b. 4500	N, C.	45000N,	d. 450N.				
15. The taken by a force of 10N to stop a mass of 2.5kg which is moving at 20m/s is –								
	a. 0.5 s, b. 5 s,	с.	50 s,	d. 0.05 s.				
16.	A 150g ball travelling at 30m/s, s	strikes the palm of	f a player's hand and	is stopped in 0.05 s. The force				
	exerted by the ball on the player's	hand is –						
	a. 9N, b. 900N	, C.	90N,	d. 0.9N.				
17.	A vehicle weighing 2000kg has maximum acceleration 0.5m/s ² . The maximum acceleration whe							
	carrying a load of 2000kg is –							
	a. 25m/s ² , b. 2.5m,	/s ² , c.	0.25m/s ² ,	d. 0.5m/s ² .				
18.	The momentum of object of mass	75g with uniform v	elocity of 2m/s is –					
	a. 150kgm/s, b. 1.5 kg	gm/s, c.	15 kgm/s,	d. 0.15 kgm/s.				
19.	The change in momentum of a body weighing 5kg when its velocity decreases from 20m/s to 0.20m/s is –							
	a. 9.9 kgm/s, b. 99 kg	;m/s, c.	0.99 kgm/s,	d. 0 kgm/s.				
20.	A bullet of mass 10g is fired from a	a gun of mass 3.5kg	g. On firing the bullet n	noves with a velocity of 350m/s.				
	The total momentum of bullet and	the gun before firi	ng is –					
	a. 3.5 kgm/s, b. 3.51 l	kgm/s, c.	0.35 kgm/s,	d. 0 kgm/s.				
21.	Newton's third law of motion which	ch says that action a	and reaction are equal	and opposite is based on –				
	a. conservation of momentum.	b.	Conservation of mass					
	c. Newton's second law of motio	on. d.	Newton's first law of	motion.				
22.	A bullet of 10 g moving with a ve	elocity of 400m/s g	ets embedded in a fre	ely suspended wooden block of				
	mass 900g. The velocity acquired b	by the block is –						
	a. 0.91 m/s, b. 44 m,	/s, c.	0.44 m/s,	d. 4.4 m/s.				
23.	The force acting on a body perpen	dicular to its surfac	e is called –					
	a. momentum, b. thrus	t, c.	pressure,	d. none of them.				
24.	The unit pascal is equivalent to – a	a. N/M^2 , b.	NM ² /Kg ² c. NM	d. kgm/s.				
25.	The buoyant force of a liquid actin	g on a body depend	ds –					
	Depends on volume of the solid object immersed in the liquid.							
	b. Depends on density of the liqu	uid in which it is imr	mersed.					
	c. Does not depend on the natur	re of the solid objec	t immersed.					
	d. All of them.							
26.	The cause of buoyant force acting	on a body immerse	ed in a liquid is –					
	a. the greater upward force exerted by liquid on the bottom of body.							
	b. The smaller upward force exerted by liquid on the bottom of body.							
	c. The greater downward force e	wnward force exerted by liquid at the top of body.						
	d. The smaller downward force e	The smaller downward force exerted by liquid at the top of body.						
27.	The depression is much more when a man stands on the cushion than when he lies down on it because							
	a. area is more.	b.	pressure is more.					
	c. less area more pressure.	d.	more area less pressu	re.				
28.	On which of the following, the ma	gnitude of pressure	depends.					

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d. none of them. a. Weight, b. force, c. mass, 29. The maximum upward 'buoyant force' acts on an object when it is a. completely immersed in water. b. floating on the surface of water. d. none of them. c. partially immersed in water. 30. The weight of a solid is d. less in air, more in water. a. more in air, b. more in water, c. less in air, 31. The lactometers used for determining the purity of milk are based on d. volume of milk. a. Archimedes' principle, c. density of milk, b. buoyant force, 32. The density of a substance increases with the a. increase in volume, b. decrease in volume, c. decrease in mass, d. no change in volume. 33. The relative density of a substance is the ratio of its density to the a. density of water, b. density of air, c. density of mercury, d. density of hydrogen. 34. Which of the following statements is incorrect a. Density of water is 1000kg/m³. b. Relative Density of water is 1kg/m³. c. Density of water is 1.0x10³kg/m³. d. Relative density of water is 1 By: Chauhan Sunil Sir (98 91 345 783)
