ATUL CLASSES

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Test / Exam Name: Atul Classes		Standard: 9th	Subject: Science	
Student Name:		Section:	Roll No.:	
		Question	s: 40 Time: 01:00 hh:mm Negative Mark	(s: 0 Marks: 40
Q1. Which of the following cl	ass of forces is different from	m others?		1 Mark
A Pulling of a cartD Weight of the body	B Stretching of a		C Kicking of a football	
Q2. Identify the force which i	s used to lift an object:			1 Mark
A Horizontal pull	B Horizontal push	C Vertical Pull	D Vertical Push	
Q3. A body is said to be unde	r balanced forces when the	resultant force actin	g on the body is:	1 Mark
A Unity	B Zero	C Infinite	D None of these	
	he ball shot towards the go ck at 20m/s. If the time of ir certed by defender on the b	npact was 0.2s and r	•	1 Mark
A 65 N	B 75 N	C 70 N	D 80 N	
Q5. While opening a tap with	two fingers, the forces app	lied are :		1 Mark
A Equal in magnitude	B Parallel to each other	C Opposite in dire	ection D All the above	
Q6. Identify the type of force	involved when loaded cart	is moved:		1 Mark
A Lifting	B Pulling	C Running	D Reading	
Q7. Inertia is?				1 Mark
A A property of mass	B A type of force	C The speed of a	object D None of these	
Q8. Organisms causing elepha	antiasis belongs to phylum:			1 Mark
A Echinodermata	B Nematode	C Arthropoda	D Annelida	
Q9. In above figure, two boys right, which one of the fo	A and B are shown applyin allowing statements is corre		the block moves towards the	1 Mark
B Magnitude of force a	oplied by A is greater than toplied by A is smaller than topplied by A is equal to that to	hat of B. C Net	force on the block is towards A.	
Q10. Which of the following I	nas more inertia.A rubber b	all or a stone of the s	same size:	1 Mark
A Rubber ballD Cannot be determin	B Stone ed		C Both have same intertia	
Q11. Nereis and Leech belong	gs to:			1 Mark
A Annelids	B Arthropods	C Echinoderms	D Mammals	
Q12. What can force do to an	object?			1 Mark
A Accelerate an objectD All of the above	B Slow down an	object C H	ave the object remain in place	
Q13. Choose the correct state	ement(s):			1 Mark
•	akes place along the directi eed not be acted upon by a		no force acts, the body is at rest	

D A	change in speed is alway	s there, whenever a forc	e is applied on the moving bo	ody	
Q14.	is an oppo	sing force that makes ob	jects in motion slow down. 🎤	ATUL CLASSES	1 Mark
	A Force	B Speed	C Friction	D Mass	
Q15. A water tank filled upto $\frac{2}{3}$ of its height is moving with a uniform speed. On sudden application of the brake, the water in the tank would:					1 Mark
	A Move backward	B Move forward	C Come to the rest	D Be unaffected	
Q16.	'When a hanging carpet phenomenon can be bes		e dust particles start coming se of:	out of it'. This	1 Mark
	A Newtons third law ofD Newtons second law		s law of gravitation. C No	ewtons first law of motion.	
Q17.	The ratio of force and ac	celeration is:			1 Mark
	A Mass	B Impulse	C Momentum	D None of these	
Q18.	A passenger in a moving is:	train tosses a coin which	n falls behind him. This shows	s that the motion of train	1 Mark
	A Accelerated.	B Uniform.	C Retarded.	D Along circular track.	
Q19.	According to the third la	w of motion, action and	reaction:		1 Mark
	•	me body but in opposite nt bodies in opposite dir t normal to each other.		nagnitudes and directions.	
Q20.	What is force in physics?				1 Mark
	A A power in star wars.D The start of an object	•	pull on an object. C A	A stop on an object.	
Q21.	_		elocities 2m/s and 4m/s, resp ocity 3m/s, then velocity of se		1 Mark
	A 3.5m/s	B 4.5m/s	C 2.5m/s	D 0m/s	
Q22.	Force exerted is:				1 Mark
	A Effort	B Load	C Fulcrum	D None of these	
Q23.	The unit of measuring m	omentum of a moving b	ody is:		1 Mark
	A ms ⁻¹	B kg ms ⁻¹	C kg ms ⁻²	D Nm ² kg ⁻²	
Q24.	When a rubber balloon h	neld between the hands	is pressed, its shape changes	. This happens because:	1 Mark
	A Balanced forces act of C Frictional forces act of		B Unbalanced forces acD Gravitational forces ac		
Q25.	2. Acceleration may b3. Two masses moving		ude of the velocity. duction in the mass of the bo		1 Mark
	A A, B and C are all true		B A is true, B is false and C		
	C A, B and C all are fals		D A is false, B is true and C		
Q26.	A girl is pushing a box to it moves faster in the sar		which direction should her fri	end push the box so that	1 Mark
	A North	B South	C East	D West	
Q27.	When a fire man directs to go backward. This is a		iter on a fire from a hose pipe	e, the hose pipe tends	1 Mark

A La	aw of gravitation	B First law of motion	C Second law of moti	on D Third law of	motion	
Q28.	accelerated motion 1. Its speed keep 2. Its velocity alv	os changing. vays changes. away from the earth.	for an object moving al	ong a straight path in	n an	1 Mark
Q29.	 A A force can stop B A force exerted by a a standstill. C A force can acce D 	ing situations involves the Notate as well as a lighter vehicle as well as a lighter vehicle on collision velocities a lighter vehicle more the escaping air from a ballocities.	a heavier vehicle which with a heavier vehicle re	are moving. esults in both the veh ehicle which are mov	ving.	1 Mark
Q30.	The inertia of an obA To increase its sD To decelerate de			st any change in its st	ate of motion.	1 Mark
Q31.	A force-time graph momentum between A 2 N-S	for a linear motion of a body en 0 and 7s is. B 3 N-S	v is shown in the figure. C 4 N-S	The change in linear D 5 N-S	•	1 Mark
Q32.	the persons sitting		rown forward violently	and saved from getti on the sudden stopp	ing injured. Jing of the	1 Mark
Q33.	Which of the follow A Rowing of a boa D Catching a move		oplication of force? a balloon while blowing	g C Pedaling a c	cycle	1 Mark
Q34.	A 20kg gun fires a b per second by the g A 4000N	ullet of mass 20g with a city un is: B 4N	of 400m/ s. The action C 8N	on the shoulder of the one of the shoulder of the one o	·	1 Mark
Q35.	A Balanced forces	d between the hands is presact on the balloon. act on the balloon.	B Unbalanced fo	This happens becaus orces act on the ballo orce acts on the ballo	on.	1 Mark
Q36.	An organism having	some characteristics of plar	nt and animal kingdom i	is:		1 Mark
	A Paramecium	B Amoeba	C Euglena	D Giraffe	2	
Q37.	A water tanker filled brake, the water in 1. Move backwa 2. Move forward 3. Be unaffected 4. Rise upwards.	rd.	ing with a unifrom spee	es. On sudden applica	ation of the	1 Mark
Q38.	A tennis ball and a	cricket ball, both are stationa	ary. To start motion in th	nem?		1 Mark

A A less force is required for	the cricket ball than for the	tennis ball	
B A less force is required for t	the tennis ball than for the	cricket ball	
C Same force is required for b	ooth the balls	D Nothing can be said UL CLASSES	
Q39. You are on a frictionless	horizontal plane. You can ge	et off the plane:	1 Marl
A By jumpingD By running on the plan		pieces of stone C By rolling your body on the surface	
Q40. When a horse pulls the t	onga, the tonga moves forv	vard due to:	1 Marl
A Force exerted by horseC Reaction of the ground		B Reaction of the tongaD None of these	