[Newto	on's Law of Motion]			
Date of Examination		Answer sheet No:	Roll No:-	Test Id No 691
Marking Scheme Total Marks – 125		Marks for one correct answ	answer - (-0.25).	
Type A	- The questions have problems	followed by alternative answ	ers where only one o	of them is correct.
1.	The block of mass 'm' as she smooth surface by a force 'l condition. The magnitude o after removal of force 'P' is (a) 2P/m	P' where the spring is under	r contracted	M 00000 (d) None.
2.	A body of mass 'm' is project The magnitude of average for (where g is acceleration due (a) mg	orce experienced by it duri		the ground with same speed 'u d of motion is (d) 4mg
3.	A particle of mass 5kg is pul The tension in the string is (a) 50N	lled along a smooth horizon	tal string. The acco	eleration of the particle is 10m/s
4.	A particle of mass 3kg slides of the particle is (a) g m/s ²	s down a smooth plane incli (b) g/3 m/s ²	ned at sin ⁻¹ (1/3) to	o horizontal. The acceleration (d) 5 m/s ²
5.	A raindrop of mass 0.2gm is fa (a) 0.02N	illing with uniform velocity of (b) Zero	25 m/sec. Its weight (c) 0.002N	will be $(g = 10m/s^2)$ (d) None
6.	A block of mass 'm' is placed of inclination θ with horizontal 'M' is accelerated horizontally slide down. What is the vertical incline plane on the block. (a) mgsin θ (c) mg	I. The incline plane body , so that body does not	A	m M
7.	acceleration of the body is (in	m/s ²)		of 60° with each other. The net
8.	object kept on it remains stati	onary relative to the incline	•	(d) None ngle of inclination θ . So that an
	(a) g/tanθ	(b) g/tanθ	(c) tanθ/g	(d) None
9.	Two blocks of masses 2 kg and	1 1 kg are placed on a smooth	horizontal table in c	ontact with each other. A horizont

9. Two blocks of masses 2 kg and 1 kg are placed on a smooth horizontal table in contact with each other. A horizontal force of 3N is applied on the first block, so that the block accelerated together with constant acceleration. The force between the two blocks must be

(a) 1N

(b) 2N

(c) 3N

(d) None

10. A monkey of mass 'm' is climbing a rope with uniform speed the tension in the rope will be

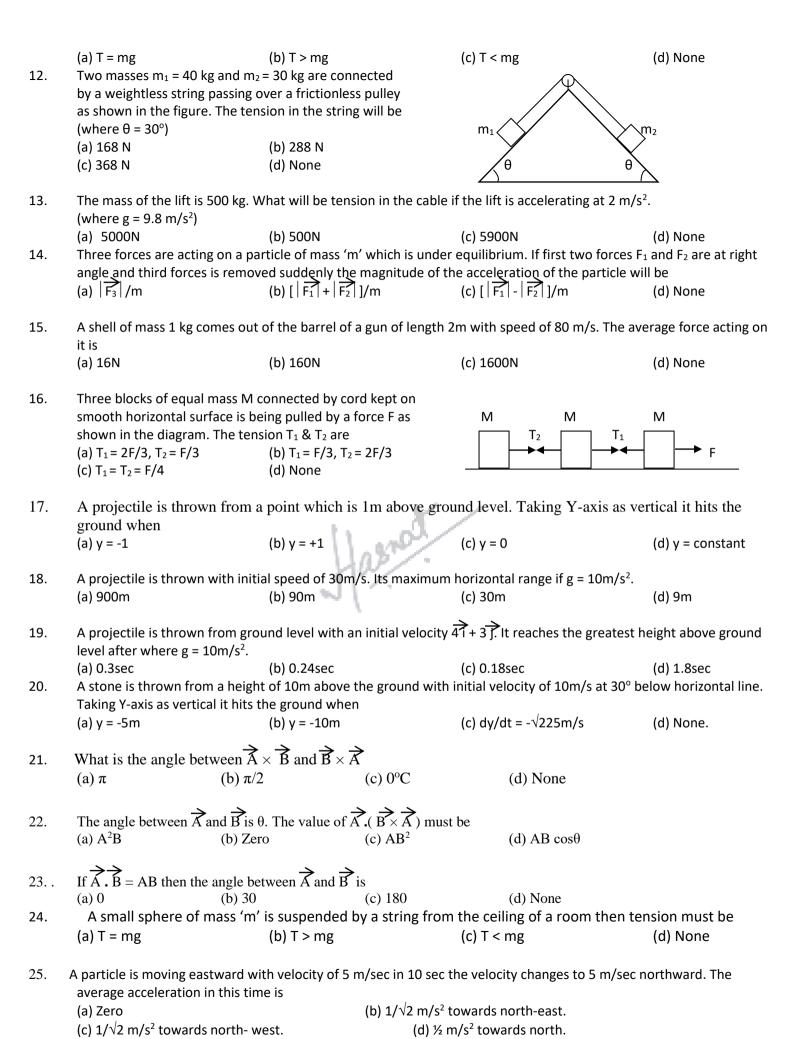
(a) more than mg

(b) less than mg

(c) equal to mg

(d) None

11. A small sphere of mass 'm' is suspended by a string from the ceiling of a car. If the car begins to on straight road with constant acceleration. The tension is the string is



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