NARAYANI INSTITUTE OF ENGG & TECHNOLOGY, ANGUL INTERNAL EXAMINATION,2ND SEMESTER-2020 SUBJECT: ENGG. MECHANICS

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	Answer all the questions (Tick the correct option) Each question carries 2 marks			Total=20
1.	The efficiency of lifting machine is the ratio of			
	a) Output to the input		c) Mechanical advantage to the velocity ratio	
	b) Work done by the machine to the work done on the machine d) All of these			
2.	The velocity ratio of a simple wheel and axle with D and d as the diameter of effort wheel			
	and load axle is			
	a) D + d	b) D – d	c) D X d	d) D/d
3.	If the gravitational acceleration at any place is double then the weight of a body will be			
	a) g/2	b) g	c) √2g	d) 2g
4.	The matter contained in a body is called			
	a) Impulsive force	b) Mass	c) Weight	d) Momentum
5.	The motion of a particle round a fixed axis is			
	a) Translatory	b) Rotary c) Ci	rcular d) Trar	nslatory as well as Rotary
6.	The periodic time(T) is given by			
	a) w/2π	b) 2π/ w	c) 2π X w	d) π/ ω
7.	The acceleration of a particle moving with simple harmonic motion, at any instant is given			
	by			
	a) W-y	b) W ²	c) W²/y	d) W ³ .y
8.	Which of the following are vector quantities?			
	a) Angular displacement		c) Angular acceleration	
	b) Angular velocity		d) All of these	
9.	The range of projectile is maximum, when the angle of projection is			
	a) 30°	b) 45 ⁰	c) 60 ⁰	d) 90º
10. The total motion possessed by a body is called				
	a) Mass	b) Weight	c) Momentum	d) Impulsive force

(If any doubts contact Arjun Sir: 9937977769)