KCS						
Class Name X			Marks: 15			
Starting Time: 08:00	Ending Time: 08:20AM					
Q.1 Tick correct option accordingly. Each part carry one mark.						
Q1. Inertia of a body of	lepends on					
a. Weight of the objec	tb. acceleration due to gravity	c. mass of the object	d. both a&b			
Q2. impulse is equal t	0					
a. rate of change of momentum	b. rate of force and time	c. change of momentum	d. rate of change of mass			
Q3. in which of the following sport for the turning effect of force used						
a. swimming	b. tennis	c. cycling	d. hockey			
Q4. plotting a graph for the momentum on the x-axis is and time on y axis slope of momentum time graph gives						
a. impulsive force	b. acceleration	c. force	d. rate of force			
Q5. Newton's third law is applicable						
a. for a body at rest	b. for a body in motion	nc. both a&b	d. only for bodies with equal masses			
Q6. the unit of g is ms^-2 . it can be also expressed as						
a. cms^-1	b. N kg^-1	c. N m^2 kg^-1	d. cm^2 s^-2			
Q7. 1 kilogram force	equals to					
a. 9.8 dyne	b. 9.8*10^4 N	c. 98*10^4 dyne	d. 980 dyne			
Q8. the mass of your body is measured on your planet earth as M kg when it is taken to a planet of radius half that of the earth then its value will bekg						
a. 4 M	b. 2 M	c. M/4	d. M			
Q9. if the Earth shrinks 50 % of its real radius its mass remaining the same the weight of your body on the earth will						
a. decreases by 50 $\%$	b. increases by 50 %	c. decreases by 25 $\%$	d. increases by 300%			
Q10. To project the rockets which of the following principles are required						
a. Newton's third law of motion	b. Newton's law of gravitation	c. law of conservation d. both a and c of momentum				
Q11. the refractive index of four substances aA,B,Cand D are 1.31 1.43 1.33 2.4 respectively the speed of light is maximum in						
a.A	b. B	c. C	d. D			
Q12. where should an object be placed so that a real and inverted image of same size is obtained by a convex lens						
a. f	b. 2f	c. infinity	d. between f and 2f			
Q13. small bulb is placed at the principal focus of a convex lens and the bulb is switched on the lens will produce						
a. convergent beam o light	fb. divergent beam of light	c. parallel beam of light	d. coloured beam of light			