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## **Physics**

## Directions

You are given following questions from the topic, with four choices A through D. Select the choice that will answer the question best.

1.	The dimensions of weight are								
	A)	MLT <sup>-1</sup>	B)	MLT <sup>-2</sup>					
	C)	LT <sup>-2</sup>	D)	ML <sup>2</sup> T					
2.	Gamm	na rays are not easily stopped by matter because		, OTC					
	A)	They have no charge	B)	They have no rest mass					
	C)	They exert no coulomb force	D)	All of the above					
3.	Acceleration is not produced in the body under the application of								
	A)	Unbalanced force	B)	Balanced force					
	C)	Infinite force	D)	Normal force					
4.	Mome	entum of the body is equal to							
	A)	Vector product of mass and velocity	B)	Dot product of mass and velocity					
	C)	Product of mass & velocity	D)	None of these					
5.	The dimension of angular velocity are								
	A)	LT <sup>-1</sup>	B)	T <sup>1</sup>					
	C)	L- <sup>1</sup>	D)	$L^2 T^1$					

- 6. If an object is placed in front of a diverging lens, then the image will be
  - A) VirtualB) Real and erectC) Virtual and erectD) Virtual and inverted

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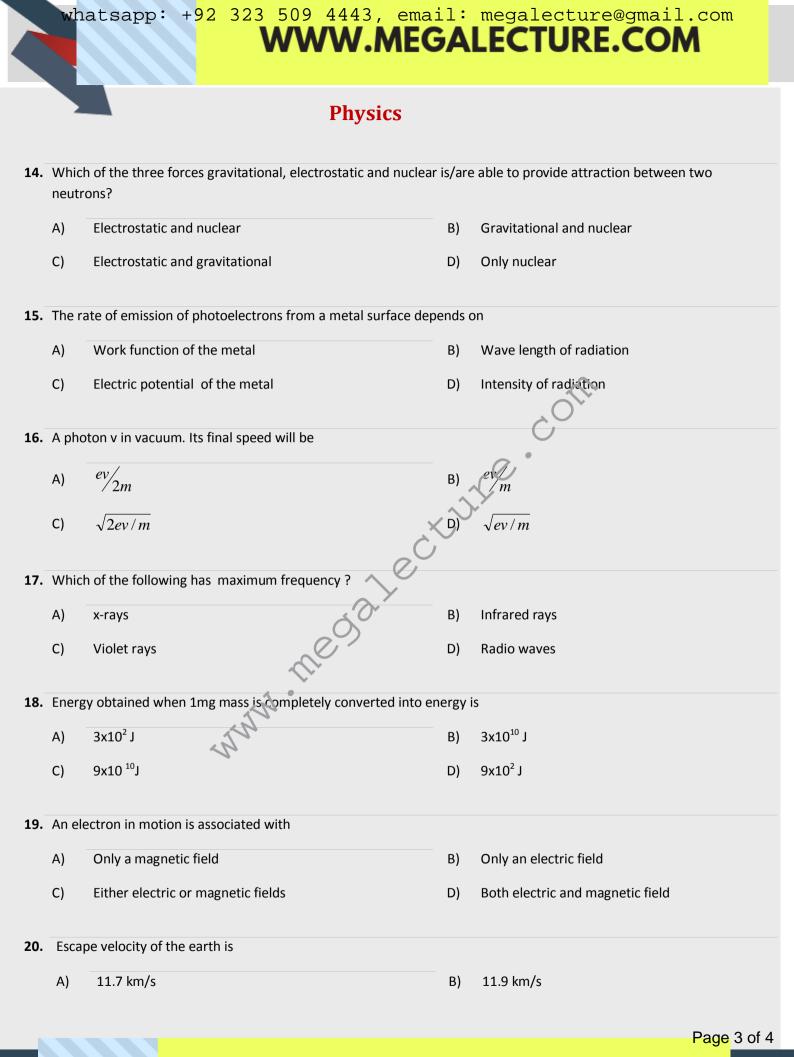
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Page 1 of 4

WWW.MEGALECTURE.COM **Physics** 7. Pressure exerted by a perfect gas is equal to A) Mean K.E per unit volume Half of mean K.E per unit volume B) One third of mean K.E per unit volume Two third of mean kinetic energy per unit C) D) volume 8. Electric flux through a medium can be A) Zero B) Maximum C) Minimum D) All of these To move a unit positive charge over an equipotential surface, the required value of amount of work done is 9. A) Positive B) Negative C) Zero D) None of these 10. For small value of 0, the acceleration of the bob is written as  $a = -g\theta$ a=  $g\theta$ A) B)  $a = -g \cos \theta$ D)  $a = +g \cos \theta$ C) 11. In young's double slit experiment, the separation between the slits is halved and the distance between slits and the screen is doubled. The fringe width is: A) Unchanged Halved B) C) Doubled D) Quardrupled 12. Nuclear forces are A) Long range forces Short range forces B) None of the these C) Both long & short range forces D) 13. Compton effect shows that A) B) x-rays have high energy x-rays are waves C) x-rays can penetrate matter D) Photon have momentum Page 2 of 4

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C) 11.2 km/s

D) None

## **ANSWERS**

1.	В	2.	D	3.	В	4.	В
5.	B	6.	С	7.	D	8.	D
9.	С	10.	Α	11.	D	12.	В
13.	D	14.	В	15.	D	16.	С
17.	Α	18.	Α	19.	Α	20.	С

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Page 4 of 4