

# Download File PDF Cpmt Question Papers

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so many fake sites. this is the first one which worked! Many thanks

18. The wavelength of photon and electron is  $\lambda_p$  and  $\lambda_e$  and energy (E) of the two is same then :

- (1) the difference can be obtain if E is given
- (2)  $\lambda_e > \lambda_p h$
- (3)  $\lambda_p h > \lambda_e$
- (4)  $\lambda_p h < \lambda_e$

19. A lift is moving with acceleration  $a$  in upward direction then the force applied by mass  $m$  on the floor of lift will be :

- (1)  $ma$
- (2)  $m(g-a)$
- (3)  $m(g+a)$
- (4)  $mg$

20. Two cars of  $m_1$  and  $m_2$  mass are moving in the circular paths of  $r_1$  and  $r_2$  radius, their speed is such that they travels one cycle in the same time, the ratio of their angular velocities is :

- (1)  $m_1 r_1 : m_2 r_2$
- (2)  $1 : 1$
- (3)  $r_1 : r_2$
- (4)  $m_1 : m_2$

21. A ring of mass  $M$ , radius  $r$  is moving with angular velocity  $\omega$ , if another two bodies each of mass  $m$  is placed on its diameter, the resultant angular velocity will be :

- (1)  $\frac{\omega(M+2m)}{M}$
- (2)  $\frac{\omega(M-2m)}{M+2m}$
- (3)  $\frac{\omega M}{(m+m)}$
- (4)  $\frac{\omega M}{(M+2m)}$

22. The wavelength of 1 keV photon  $1.25 \times 10^9$  m the frequency of MeV photon will be :

- (1)  $1.24 \times 10^{21}$
- (2)  $2.4 \times 10^{21}$
- (3)  $2.4 \times 10^{22}$
- (4)  $1.24 \times 10^{23}$

23. Size of nucleus of the order of :

- (1)  $10^{-10}$  cm
- (2)  $10^{-12}$  cm
- (3)  $10^{-14}$  cm
- (4)  $10^{-15}$  cm

24. If  $M$ , angular acceleration and torque of body is  $L$ ,  $\omega$  and  $\mathbf{x}$ , it is revolving with angular velocity then :

- (1)  $\tau = \frac{L}{I}$
- (2)  $M = \frac{L}{\omega}$
- (3)  $\tau = L\omega$
- (4)  $\tau = L\omega$

25. In a uniform circular motion :

- (1) both acceleration and speed changes
- (2) both acceleration and speed are constant
- (3) both acceleration and velocity are constant
- (4) both acceleration and velocity changes

26. Ratio of average kinetic energies of  $H_2$  and  $O_2$  at a given temp. is :

- (1) 1 : 1
- (2) 1 : 4
- (3) 1 : 8
- (4) 1 : 16

27. To make the working of a machine, free of magnetism, the cover of this machine must be of :

- (1) non magnetic substance
- (2) diamagnetic substance
- (3) paramagnetic substance
- (4) ferro magnetic substance

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