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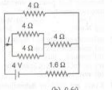
so many fake sites. this is the first one which worked! Many thanks

JIPMER
Medical Entrance Exam
Solved Paper 2011

Physics

1. The physical quantity having the dimensions $[M^{-1}L^2T^{-1}]$ is
(a) resistance (b) resistivity (c) electrical conductivity (d) electrostatic force

2. In the circuit shown the value of I in ampere is



(a) 1 (b) 0.60 (c) 0.4 (d) 1.5

3. The specific charge of a proton is 9.6×10^7 C/kg. The specific charge of an alpha particle will be
(a) 9.6×10^7 C/kg (b) 19.2×10^7 C/kg (c) 4.8×10^7 C/kg (d) 2.4×10^7 C/kg

4. If λ_1 and λ_2 are the wavelengths of the first members of the Lyman and Paschen series respectively, then $\lambda_1 : \lambda_2$ is
(a) 1 : 3 (b) 1 : 30 (c) 7 : 50 (d) 7 : 108

5. Activity of a radioactive sample decreases to $(1/32)^{\text{th}}$ of its original value in 3 days. Then, in 9 days its activity will become
(a) $(1/27)^{\text{th}}$ of the original value (b) $(1/9)^{\text{th}}$ of the original value (c) $(1/18)^{\text{th}}$ of the original value (d) $(1/3)^{\text{th}}$ of the original value

6. A tuning fork A produces a beat/s with another tuning fork B of frequency 320 Hz. On filing one of the prongs of A, 4 beats/s are again heard when sounded with the same fork B. Then, the frequency of the fork A before filing is
(a) 328 Hz (b) 316 Hz (c) 324 Hz (d) 320 Hz

7. If there were no gravity, which of the following will not be there for a fluid?
(a) Viscosity (b) Surface tension (c) Pressure (d) Archimedes' upward thrust

8. A choke is preferred to a resistance for limiting current in AC circuit because
(a) choke is cheap (b) there is no wastage of power (c) choke is compact in size (d) choke is a good absorber of heat

9. Velocity-time curve for a body projected vertically upwards is
(a) parabola (b) ellipse (c) hyperbola (d) straight line

10. If r_1 and r_2 are the radii of the atomic nuclei of mass numbers 64 and 125 respectively, then the ratio (r_1/r_2) is
(a) $\frac{64}{125}$ (b) $\frac{64}{125}$ (c) $\frac{4}{5}$ (d) $\frac{5}{4}$

11. The ionization energy of Li^{2+} is equal to
(a) 96eV (b) 96eV (c) 204eV (d) 102eV

12. A current of 5 A is passing through a metallic wire of cross-sectional area $4 \times 10^{-6} \text{ m}^2$. If the density of charge carriers of the wire is $5 \times 10^{28} \text{ m}^{-3}$, then the drift velocity of the electrons will be
(a) $1 \times 10^7 \text{ m/s}$ (b) $3.56 \times 10^7 \text{ m/s}$ (c) $1.56 \times 10^7 \text{ m/s}$ (d) $1 \times 10^7 \text{ m/s}$

13. The numerical ratio of displacement to the distance covered is always
(a) less than one (b) equal to one (c) equal to or less than one (d) equal to or greater than one

14. In Young's double slit experiment with sodium vapour lamp of wavelength 589 nm and the slits 0.589 mm apart, the half angular width of the central maximum is
(a) $\sin^{-1}(0.01)$ (b) $\sin^{-1}(0.0001)$ (c) $\sin^{-1}(0.001)$ (d) $\sin^{-1}(0.1)$

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