KUMAR PHYSICS CLASSES

E 281 BASEMENT M BLOCK MAIN ROAD GREATER KAILASH 2 NEW DELHI

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NEET PHYSICS PAPER SOLUTION 17 JULY 2022

Each Question Properly Explained With Theory

8

Formulae Hand Written $(R_1 >> R_2)$ have equal charges. The potential would be :

Two hollow conducting spheres of radii R₁ and R₂

(1) more on smaller sphere

- (2) equal on both the spheres
- (3) dependent on the material property of the sphere
- (4) more on bigger sphere

41160 7

12 - 4118 R

(K) >> (K)

potential is more for smaller sphere

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The angular speed on a fly wheel moving with uniform angular acceleration changes from 1200 rpm to 3120 rpm in 16 seconds. The angular acceleration in rad/s is : (1) 4π (2) 12π (3) 104π (4) 2π

2.

$$W = Wo + \alpha + \frac{1}{4}$$

$$= 2\pi i \int_{3}^{4} - 2\pi \int_{60}^{1} \frac{1}{60}$$

$$= 2\pi i \int_{60}^{2126} - \frac{1200}{60}$$

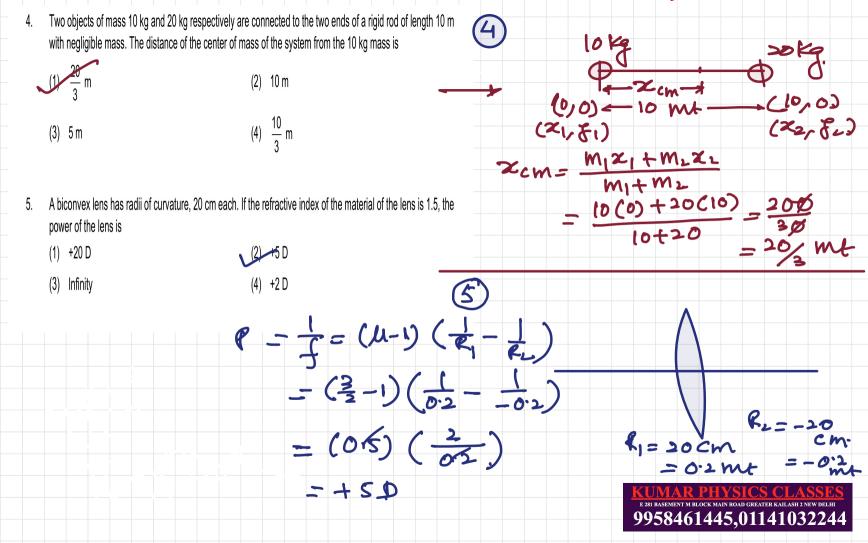
211 × 1920 = 411 700/sel

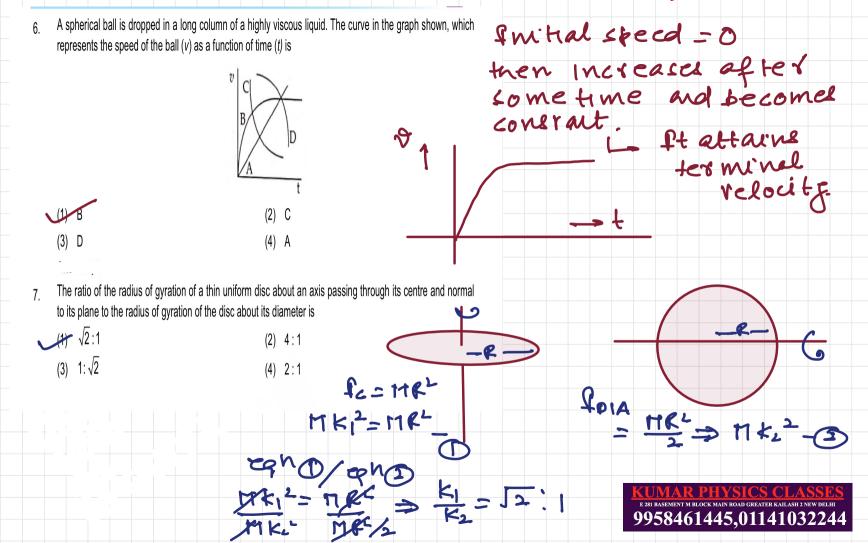
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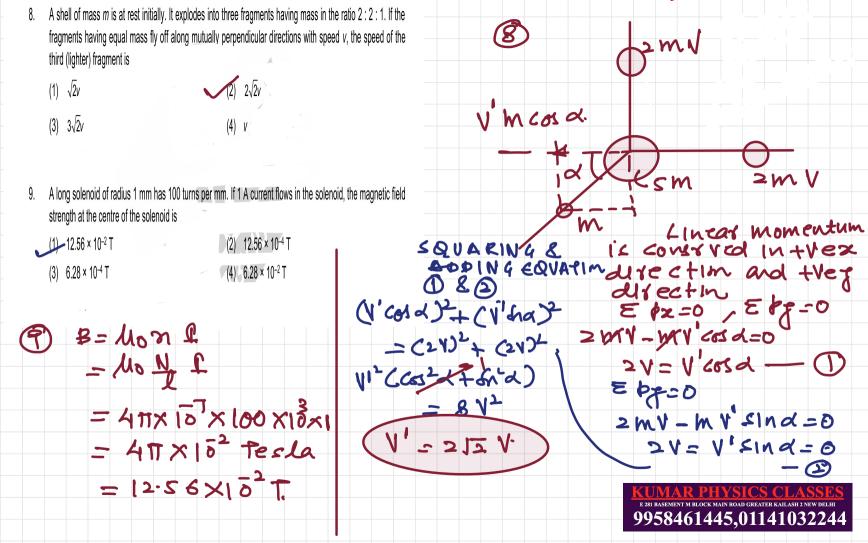
In the given circuits (a), (b) and (c), the potential drop across the two p-n junctions are equal in (1) Circuit (b) only (2) Circuit (c) only Both circuits (a) and (c) (4) Circuit (a) only

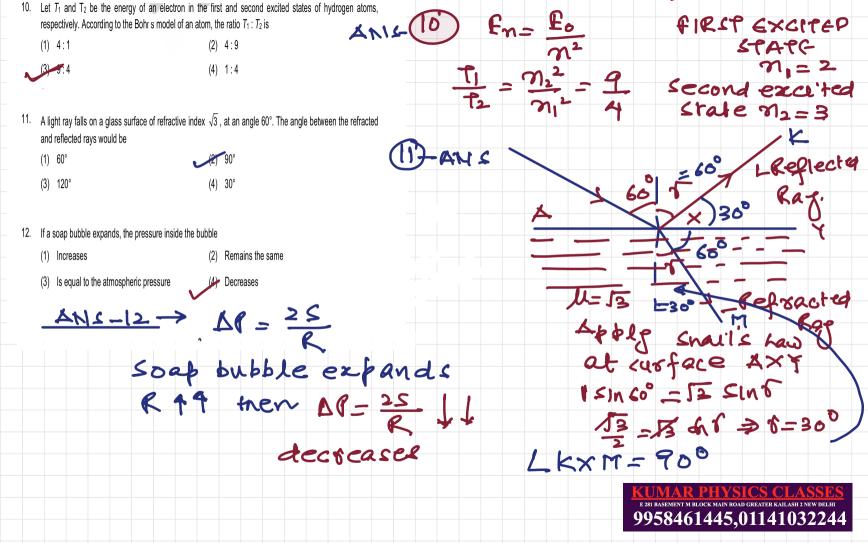
crecut (a) & (c) both he circuite are similarly bliated offer equal resistance (and allo in series) hence equal potential drop across the punctim

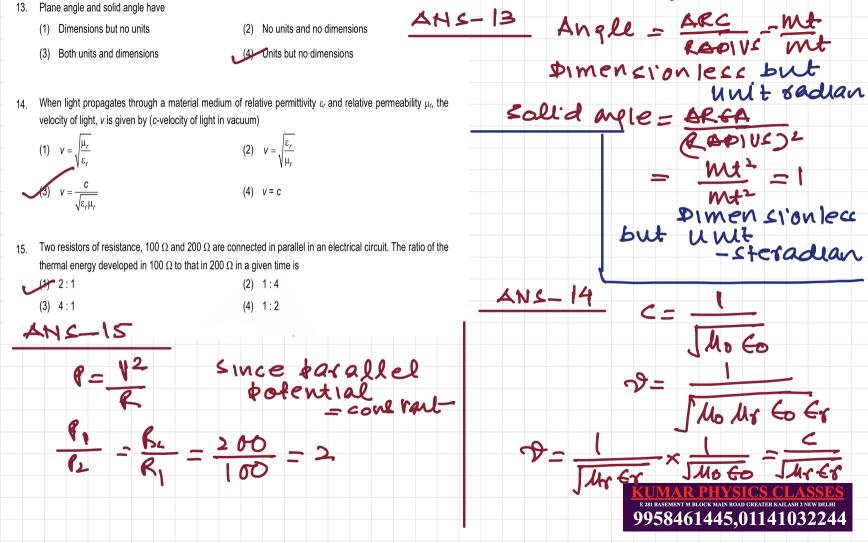
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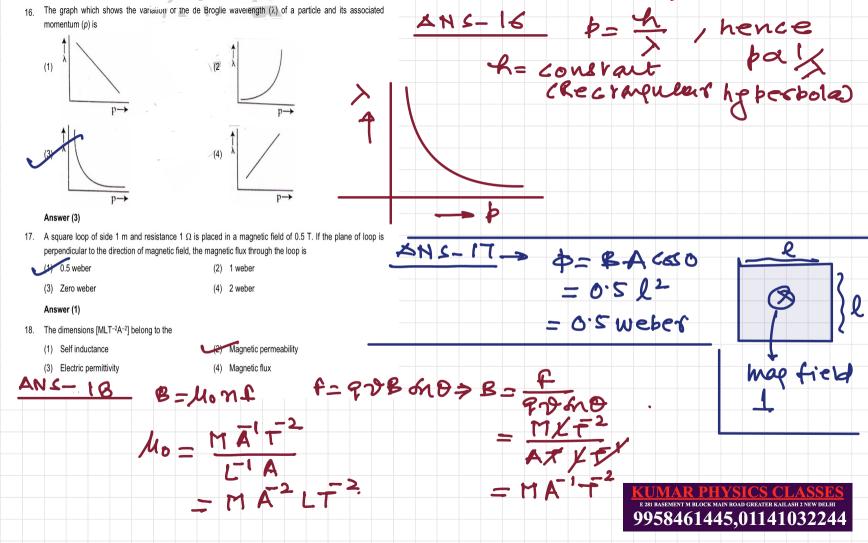


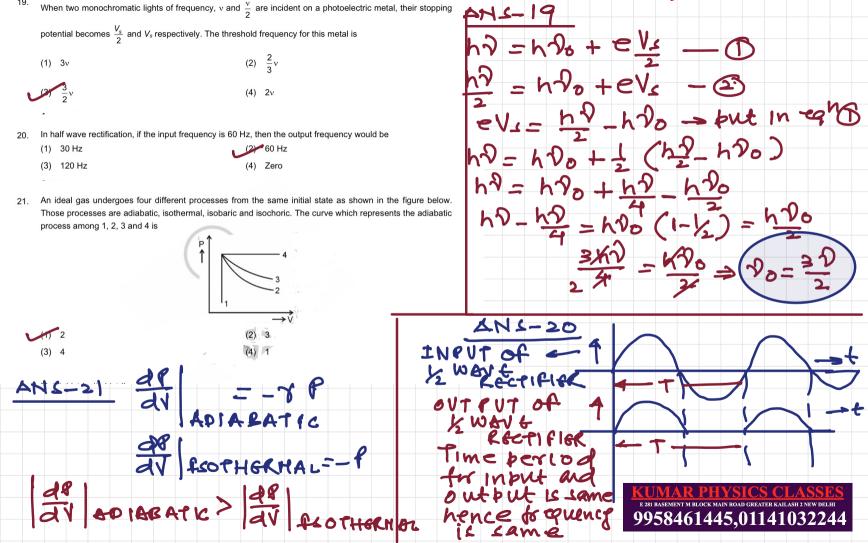


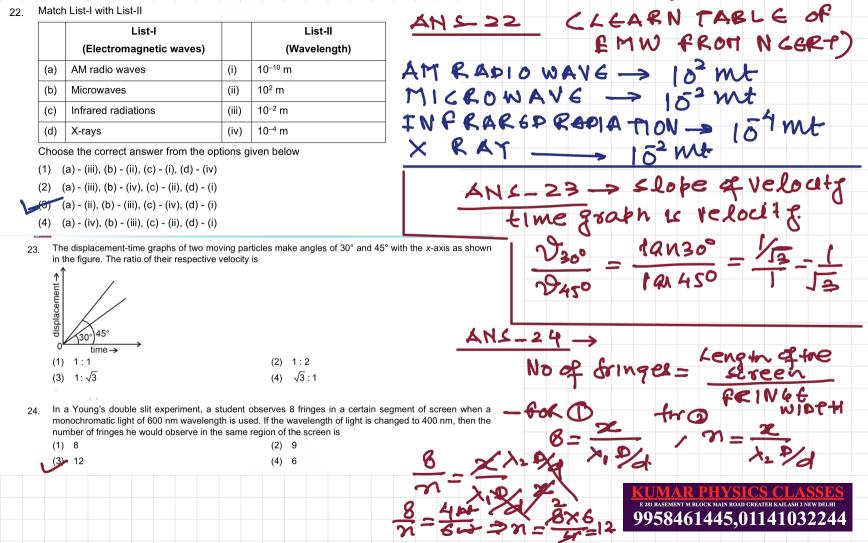


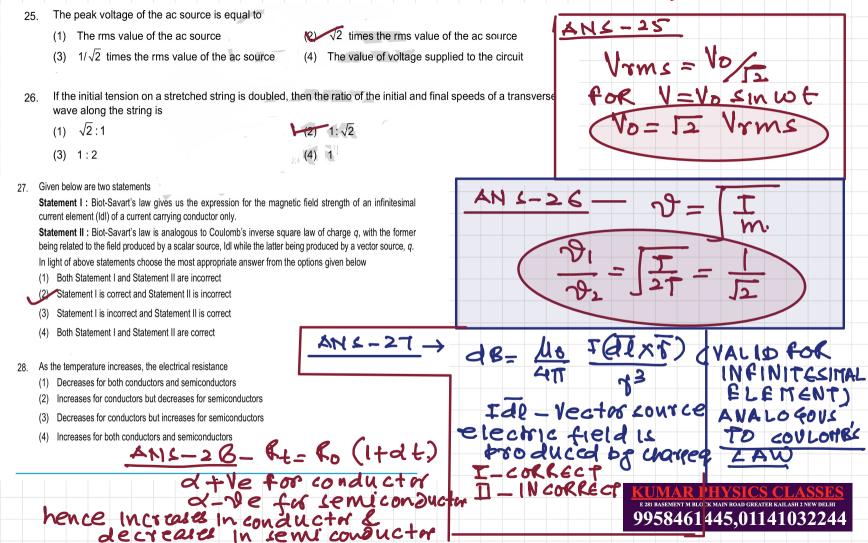


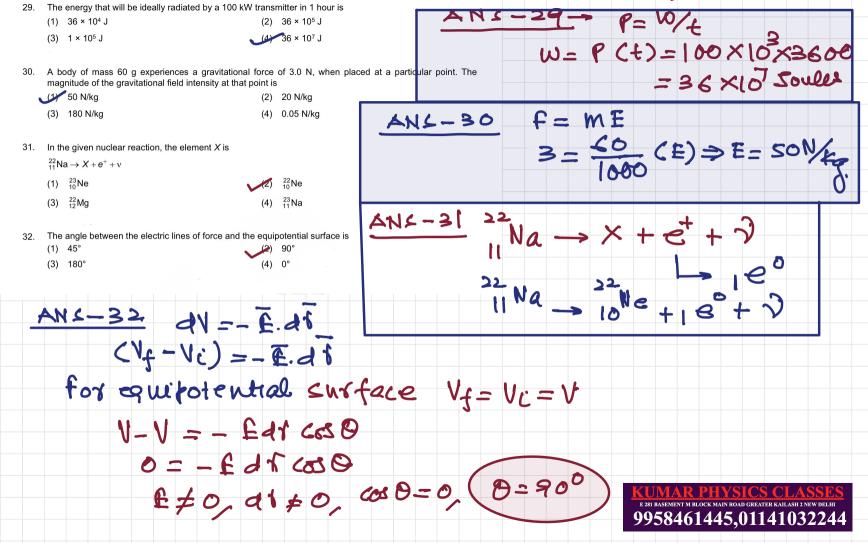


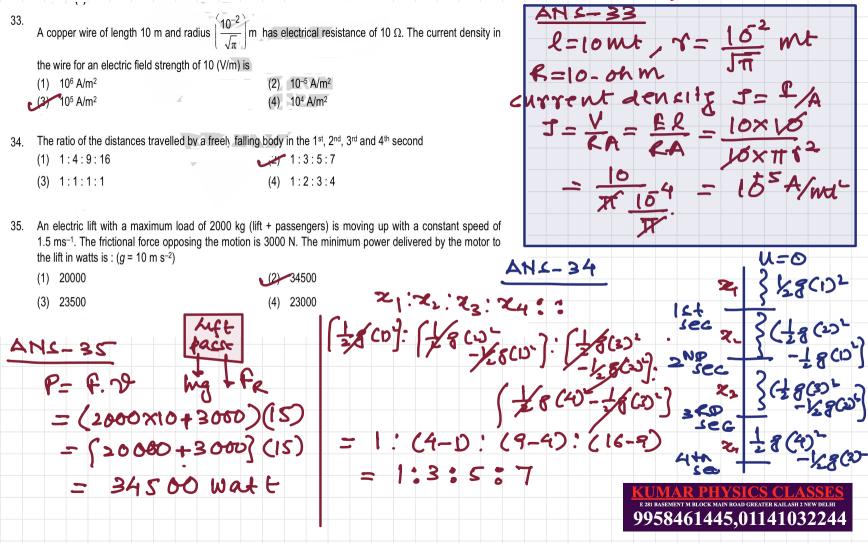


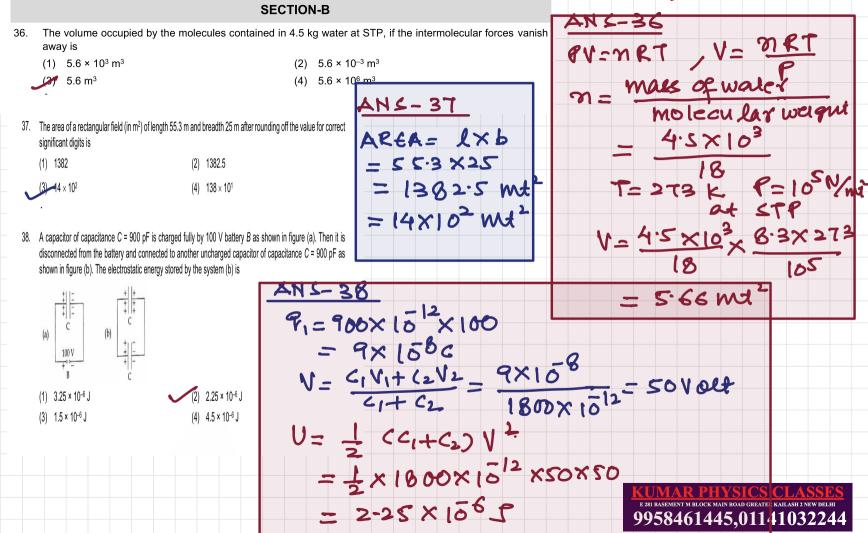




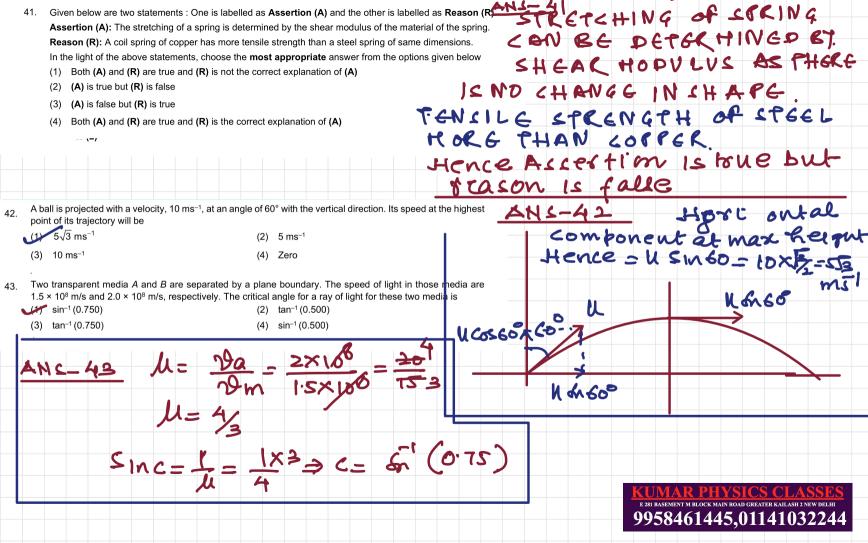


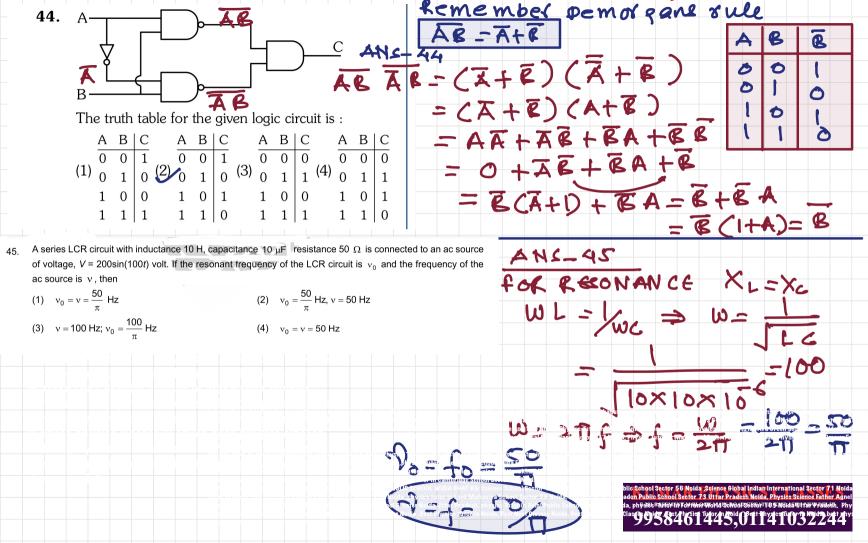




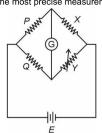


Match List - I with List - II: List - I List - II M, ML (i) $[L^2T^{-2}]$ (a) Gravitational constant (G) PE= mgn = MLT2 = ML2 + 3
GRAVITATIONAL. POTENTIAL = $[M^{-1}L^{3}T^{-2}]$ Gravitational (b) potential energy (iii) \(\sum_{L} T^{-2} \) Gravitational potential $[ML^2T^{-2}]$ Gravitational (iv) intensity GRAVITATIONAL INTENSIT Choose the correct answer from the options given below: (a)–(ii), (b)–(iv), (c)–(i), (d)– (iii) ANS-40 (2) (a)–(ii), (b)–(iv), (c)–(iii), (d)– (i) (3) (a)–(iv), (b)–(ii), (c)–(i), (d)–(iii)(4) (a)–(ii), (b)–(i), (c)–(iv), (d)– (iii) Two pendulums of length 121 cm and 100 cm start vibrating in phase. At some instant, the two are at their mean position in the same phase. The minimum number of vibrations of the shorter pendulum after which the - 812/100 two are again in phase at the mean position is: (1) 9(3) 8 9958461445,01141032244

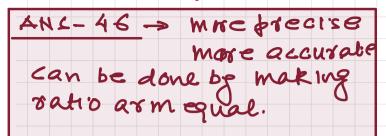


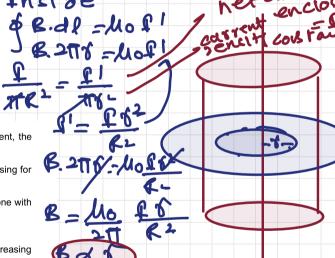


A wheatstone bridge is used to determine the value of unknown resistance X by adjusting the variable resistance Y as shown in the figure. For the most precise measurement of X, the resistances P and Q

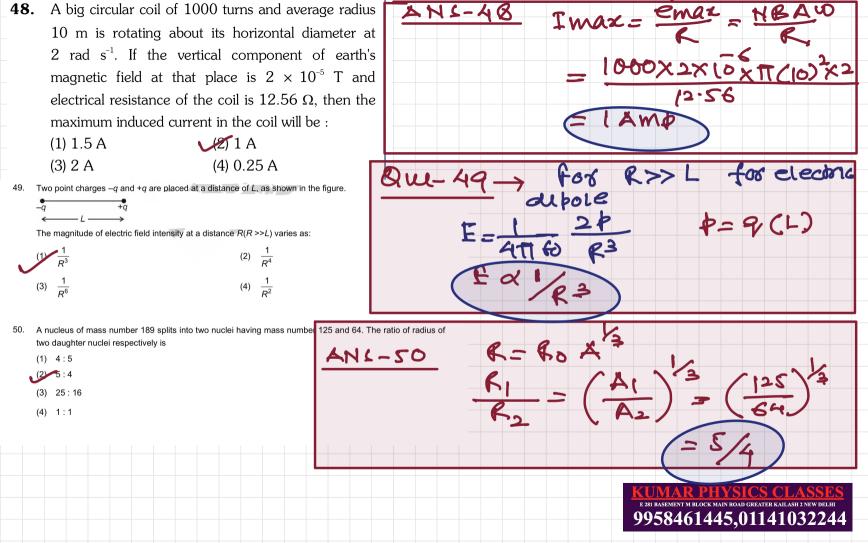


- Should be approximately equal and are small
- Should be very large and unequal
- Do not play any significant role
- (4)Should be approximately equal to 2X
- From Ampere's circuital law for a long straight wire of circular cross-section carrying a steady current, the variation of magnetic field in the inside and outside region of the wire is (1) A linearly increasing function of distance upto the boundary of the wire and then linearly decreasing for
 - the outside region. (2) A linearly increasing function of distance r upto the boundary of the wire and then decreasing one with
 - dependence for the outside region.
 - A linearly decreasing function of distance upto the boundary of the wire and then a linearly increasing one for the outside region. outeroe bear - 40f
 - (4) Uniform and remains constant for both the regions.





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