

FIRST MID TERM TEST - JULY - 2019
STANDARD - XII
PHYSICS

Time : 1 - 15 hours

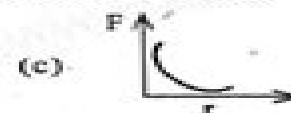
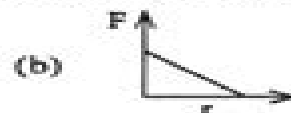
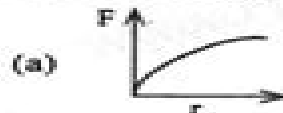
Marks - 35

PART - A

10 × 1 = 10

I. Choose the best answer:

1. Force between two charges varies with distance between them as



2. Two charges $3 \times 10^{-8} \text{ C}$ and $-2 \times 10^{-8} \text{ C}$ located 15 cm apart. At what point on the line joining the two charges is the electric potential zero?

- (a) 9 cm (b) 45 cm (c) 18 cm (d) Both (a) and (b)

3. If voltage applied on a capacitor is increased from V to $2V$, choose the correct conclusion.

- (a) Q remains the same, C is doubled (b) Q is doubled C doubled
 (c) C remains the same, Q doubled (d) Both Q and C remain same

4. The drift velocity of free electrons in a conductor is V when a current I is flowing in it. If both the radius and current are doubled, then drift velocity will be

- (a) V (b) $\frac{V}{2}$ (c) $\frac{V}{4}$ (d) $\frac{V}{8}$

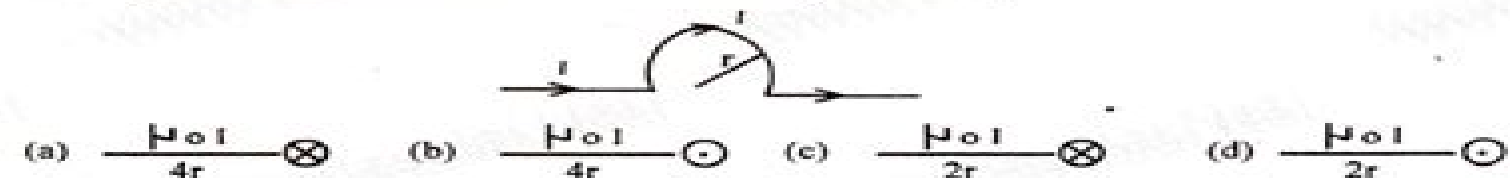
5. Two bulbs of 500 w and 300 w are manufactured to operate on 220 V line. If their resistances are R_1 and R_2 respectively, then value of $\frac{R_1}{R_2}$ is

- (a) $5/3$ (b) $3/5$ (c) $25/9$ (d) $9/25$

6. The potential difference ($V_A - V_B$) between the points A and B in the given figure is _____



7. The magnetic field at the centre O of the following current loop is



8. The vertical component of Earth's magnetic field at a place is equal to the horizontal component. What is the value of angle of dip at this place?

- (a) 30° (b) 45° (c) 60° (d) 90°

12th First Midterm Maths Question Paper 2013

Tobias Bleicker



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