

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

**Time : 1 - 15 hours**

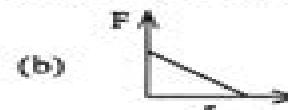
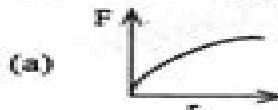
**PART - A**

**Marks - 35**

$$10 \times 1 = 10$$

**I. Choose the best answer:**

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



2. Two charges  $3 \times 10^{-8}$  C and  $-2 \times 10^{-8}$  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 \_\_\_\_\_.



(a) -3v (b) +3v (c) 6v (d) 9v

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



(a)  $\frac{\mu_0 I}{4r} \otimes$  (b)  $\frac{\mu_0 I}{4r} \odot$  (c)  $\frac{\mu_0 I}{2r} \otimes$  (d)  $\frac{\mu_0 I}{2r} \odot$

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)  $30^\circ$  (b)  $45^\circ$  (c)  $60^\circ$  (d)  $90^\circ$

# 12th First Midterm Maths Question Paper 2013

**Tobias Bleicker**

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