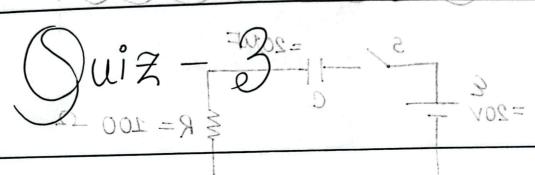
## Answer to the 9. NO - 01



Submitted by: Tasnim Rahman Moumita

VOID3: 22301689; = 36000 (9)

Course code : PHY112 = 001 = 1 :01/00

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Q q= c, q. (1- f- 1/2) = \ 20x10 x 20x (1-8 2x 0) 51.33 × 10 C t = pcln2

(b) Vc, max = 20 V (Ams.)

Tasnim Rahman Mounita

59 = J 42

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signature

1) Imax = 1/2 = 100 = 0.2 A (:ant)

Answer to the S. NO - 01

E = 20 V T 

R = 100 - 2

The charging mode, where 
$$R = 100 - 2$$

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Solve:  $R = 100 - 2$ 
 $R = 100 -$ 

when 
$$t = d$$
,  
 $9(t) = 9 \max$ 

when 
$$t = d$$
,  $q(t) = q \max_{x \in S} \frac{1}{|x|} \frac$ 

: 
$$q_{(t)} = \frac{1}{2} \cdot \frac{1}{Rc}$$
  
:  $q_{(t)} = \frac{1}{2} \cdot \frac{1}{Rc}$   
 $\frac{1}{1-e} = \frac{1}{Rc}$   
 $\frac{1}{1-e} = \frac{1}{Rc}$ 

$$9 \text{ max} = 20 \times 20 \times 10^{-6}$$
  
= 400 × 10<sup>-6</sup> (Ams:)

$$Va - Vb = (25 \times 2) - 5$$
 $Va - Vb = 30 - 5$ 
 $Va - Vb = 25 \cdot V$ 

Answer to the g. NO-02

$$E_{1}=10V \qquad \qquad E_{3}=5V \qquad \qquad E_$$

(a) 
$$2i_1 = 30$$

$$-5 + 4i_2 + 20 = 0$$

$$\Rightarrow [i_2 = -3.75A]$$

$$\Rightarrow \boxed{i_2 = -3.75A} (Ansi)^{3.01 \times 0.00} =$$

$$V_a - V_b = (15 \times 2) - 5$$

$$\Rightarrow$$
  $Va - Vb = 30 - 5$ 

$$|V_a - V_b| = 25 \text{ V}$$