Name: Md Raihanul Islam Section: 16

Sub: Id: 20101239

Day

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Ans to the Q: No: 1

(a)

$$E = \frac{\sigma}{2\varepsilon_0}$$

$$= \frac{35 \times 10^{-6} \times 10^{9}}{2 \times 8.854 \times 10^{-12}}$$

~~$= 197.6507.793$~~

$= 1.976 \times 10^{10}$ N/C

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(c)

$$E = \frac{\rho R^3}{3 \epsilon_0 r^2}$$

$$= \frac{37 \times 10^{-6} \times (11 \times 4.3)^3}{3 \times 8.854 \times 10^{-12}}$$

$$= 6588735 7.88$$

$$= \frac{\rho R^3}{3 \epsilon_0 r^2}$$

$$= \frac{137 \times 10^{-6} \times 11^3}{3 \times \epsilon_0 \times (4.3 \times 11)^2}$$

$$= 88678.83$$

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(d)

$$E = \frac{\rho r}{3\epsilon_0}$$

$$= \frac{32 \times 10^{-6} \times 0.35 \times 11}{3 \times \epsilon^0}$$

$$= 53\,627\,25.\overline{79}$$

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(e)

$$E = \frac{\rho \cdot \frac{4}{3}\pi R^3}{3\epsilon_0} \quad \text{to}$$

$$= \frac{32 \times 10^{-6} \times \frac{4}{3} \times 3.1416 \times 11^3}{3 \times 8.854 \times 10^{-12}}$$

$$= 2.32 \text{ to } \times 10^{10}$$