

PHYSICS 2200 – PRACTICE MIDTERM with Answers

1) Determine the equivalent capacitance of the combination shown when $C = 24 \mu\text{F}$.



a. $20 \mu\text{F}$

b. $36 \mu\text{F}$

c. $16 \mu\text{F}$

d. $45 \mu\text{F}$

e. $27 \mu\text{F}$

Answer: C

2) In the figure, all the charges are point charges and the charge in the middle is $Q = -3.1 \text{ nC}$. For what charge q_1 will charge q_2 be in static equilibrium?



A) 12 nC

B) 6.2 nC

C) 3.1 nC

D) 25 nC

Answer: A

3) The figure shows two tiny 5.0-g spheres suspended from two very thin 1.0-m -long threads. The spheres repel each other after being charged to $+91 \text{ nC}$ and hang at rest as shown. What is the angle θ ? ($k = 1/4\pi\epsilon_0 = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$)

A) 4.1°

B) 8.2°

C) 12°

D) 16°

Answer: A

4) In the figure $Q = 5.8 \text{ nC}$ and all other quantities are accurate to 2 significant figures. What is the magnitude of the force on the charge Q ? ($k = 1/4\pi\epsilon_0 = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$)

A) $1.8 \times 10^{-3} \text{ N}$

B) $1.0 \times 10^{-3} \text{ N}$

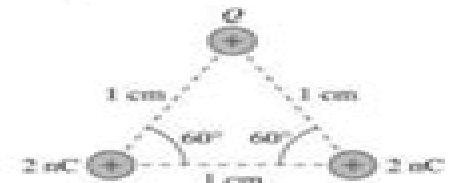
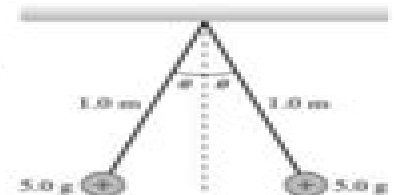
C) $9.0 \times 10^{-4} \text{ N}$

D) $1.2 \times 10^{-3} \text{ N}$

Answer: A

5) Two point charges of $+20.0 \mu\text{C}$ and $-8.00 \mu\text{C}$ are separated by a distance of 20.0 cm . What is the magnitude of electric field due to these charges at a point midway between them? ($k = 1/4\pi\epsilon_0 = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$)

A) $25.2 \times 10^6 \text{ N/C}$ directed toward the negative charge



Answers For Physics Lab Midterm Exam

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