

Sol. 3

By formula of electric field between the plates of a capacitor $E = \frac{\sigma}{K\epsilon_0}$

$$\begin{aligned}\Rightarrow \sigma &= EK\epsilon_0 = 3 \times 10^6 \times 2.2 \times 8.85 \times 10^{-12} \\ &= 6.6 \times 8.85 \times 10^{-6} \\ &= 5.841 \times 10^{-5} \\ &\approx 6 \times 10^{-5} \text{ C/m}^2\end{aligned}$$

8. A student measured the length of a rod and wrote it as 3.50 cm. Which instrument did he use to measure it?
- (1) A screw gauge having 100 divisions in the circular scale and pitch as 1 mm.
 - (2) A screw gauge having 50 divisions in the circular scale and pitch as 1 mm.
 - (3) A meter scale.
 - (4) A vernier calliper where the 10 divisions in vernier scale matches with 9 division in main scale and main scale has 10 divisions in 1 cm.

Sol. 4

Least count of vernier calliper is $\frac{1}{10} \text{ mm} = 0.1 \text{ mm} = 0.01 \text{ cm}$

9. Four particles, each of mass M and equidistant from each other, move along a circle of radius R under the action of their mutual gravitational attraction. The speed of each particle is :

- (1) $\sqrt{\frac{GM}{R}} (1 + 2\sqrt{2})$
- (2) $\frac{1}{2} \sqrt{\frac{GM}{R}} (1 + 2\sqrt{2})$
- (3) $\sqrt{\frac{GM}{R}}$
- (4) $\sqrt{2\sqrt{2}} \frac{GM}{R}$

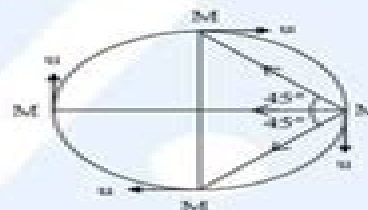
Sol. 2

Net force on any one particle

$$\begin{aligned}&= \frac{GM^2}{(2R)^2} + \frac{GM^2}{(R\sqrt{2})^2} \cos 45^\circ + \frac{GM^2}{(R\sqrt{2})^2} \cos 45^\circ \\ &= \frac{GM^2}{R^2} \left[\frac{1}{4} + \frac{1}{\sqrt{2}} \right]\end{aligned}$$

This force will be equal to centripetal force so

$$\begin{aligned}\frac{Mv^2}{R} &= \frac{GM^2}{R^2} \left[\frac{1 + 2\sqrt{2}}{4} \right] \\ v &= \sqrt{\frac{GM}{4R} [1 + 2\sqrt{2}]} = \frac{1}{2} \sqrt{\frac{GM}{R} (2\sqrt{2} + 1)}\end{aligned}$$



10. In a large building, there are 15 bulbs of 40 W, 5 bulbs of 100 W, 5 fans of 80 W and 1 heater of 1kW. The voltage of the electric mains is 220 V. The minimum capacity of the main fuse of the building will be :

- (1) 12 A
- (2) 14 A
- (3) 8 A
- (4) 10 A

Sol. 1

Item	No.	Power
40 W bulb	15	600 Watt
100 W bulb	5	500 Watt
80 W fan	5	400 Watt
1000 W heater	1	1000 Watt

Total Wattage = 2500 Watt

$$\text{So current capacity } i = \frac{P}{V} = \frac{2500}{220} = \frac{125}{11} = 11.36 \approx 12 \text{ Amp.}$$

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Table of Contents Math 2014 Question Paper Caps

1. Understanding the eBook Math 2014 Question Paper Caps
 - The Rise of Digital Reading Math 2014 Question Paper Caps
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 2014 Question Paper Caps
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Math 2014 Question Paper Caps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math 2014 Question Paper Caps
 - Personalized Recommendations
 - Math 2014 Question Paper Caps User Reviews and Ratings
 - Math 2014 Question Paper Caps and Bestseller Lists
5. Accessing Math 2014 Question Paper Caps Free and Paid eBooks

- Math 2014 Question Paper Caps Public Domain eBooks
 - Math 2014 Question Paper Caps eBook Subscription Services
 - Math 2014 Question Paper Caps Budget-Friendly Options
6. Navigating Math 2014 Question Paper Caps eBook Formats
- ePub, PDF, MOBI, and More
 - Math 2014 Question Paper Caps Compatibility with Devices
 - Math 2014 Question Paper Caps Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Math 2014 Question Paper Caps
 - Highlighting and Note-Taking Math 2014 Question Paper Caps
 - Interactive Elements Math 2014 Question Paper Caps
8. Staying Engaged with Math 2014 Question Paper Caps
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 2014 Question Paper Caps
9. Balancing eBooks and Physical Books Math 2014 Question Paper Caps
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 2014 Question Paper Caps
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math 2014 Question Paper Caps
- Setting Reading Goals Math 2014 Question Paper Caps
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math 2014 Question Paper Caps
- Fact-Checking eBook Content of Math 2014 Question Paper Caps
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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