



PHYSICS

BOOKS - PSEB

SOME NATURAL PHENOMENA

Exercise

1. Which of the following cannot be charged easily by friction ?

A. A plastic scale

B. A copper rod

C. An inflated ballon

D. A wollen cloth

Answer: A copper rod



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2. When a glass is rubbed with a piece of silk cloth the rod

A. and the cloth both acquire positive charge.

B. beomes positively charged while the cloth has a negative charge.

C. and the cloth acquire negative charge.

D. becomes negatively charged while the cloth has a positive charge.

Answer: beomes positively charged while the cloth has a negative charge.



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3. Tick T for true and F for false in the following statements: Like charges attract each other. (T/F)



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4. Tick T for true and F for false in the following statements: A charged glass rod attracts a charged plastic straw.. (T/F)



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5. Tick T for true and F for false in the following statements: Lightning conductor cannot protect a building from lightning. (T/F)



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6. Tick T for true and F for false in the following statements: Earthquakes can be predicted in advance. (T/F)



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7. Sometimes , a crackling sound is heard while taking off a sweater during winters. Explain.



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8. Explain why a charged body loses its charge if we touch it with our hand.



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9. Name the scale on which the destructive energy of an earthquake is measured . An earthquake measures 3 on this scale. Would it be recorded by a seismograph ? Is it likely to cause much damage ?



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10. Suggest three measures to protect ourselves from lightning.



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11. Explain why a charged balloon is repelled by another charged balloon whereas an uncharged balloon is attracted by another balloon ?



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12. Describe with the help of a diagram an instrument which can be used to detect a charged body.



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13. List three states in India where earthquakes are more likely to strike.



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14. Suppose you are outside your home and an earthquake strikes . What precaution would you take to protect yourself ?



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15. The weather department has predicted that a thunderstorm is likely to occur on a certain day .Suppose you have to go out on that day. Would you carry an umbrella ? Explain.



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