



PHYSICS

BOOKS - LAKHMIR SINGH & MANJIT KAUR

SOME NATURAL PHENOMEAN



1. What are the two kinds of electric charges ?

2. What kind of electric charge is acquired :

by a glass rod rubbed with silk cloth ?

A. Positive

B. Negative

C. Both A and B

D. None of these

Answer: A

3. What kind of electric charge is acquired :

by a plastic comb rubbed with dry hair ?

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4. What type of electric charge is acquired by a rubber ballon when rubbed with a woollen cloth ?

5. A negative charged object attracts another charge object placed near it. What is the nature of charge on the other object ?



6. A positively charged object repels another charged object kept close to it. What is the

nature of charge on the other object ?



7. A negatively charged object repels another charged object held near it. What is the nature of charge on the other object ?

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8. A glass rob is rubbed with a silk cloth. What

type of charge is acquired by silk cloth ?

9. A glass rob is rubbed with a silk cloth. What

type of charge is acquired by glass rod ?

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10. An inflated rubber ballon and a woollen cloth are rubbed together. What type of charge is acquired by woollen cloth



11. An inflated rubber ballon and a woollen cloth are rubbed together. What type of charge is acquired by rubber balloon ?



12. Name the device to detect electric charge

on a body.

13. When an object is touched with the metal top of an electroscope, its aluminium leaves diverge. What conclusion do you get from this observation ?

A. The object is charged

B. The object is uncharged

C. The objects is an insulator

D. None of these

Answer: A





14. What is the name given to those applications that combine text, sound, graphics, motion video, and/or animation?

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15. Why should a person not stand under a tree during a thunderstorm ?

A. Trees are insulators

B. Trees attract lightning

C. Lightning can strike trees and buildings

and further it can jump to humans easily

D. All of these

Answer: C

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16. Name the device which is used to protect a

tall building from lightning.

- A. Lightening conductor
- B. Lightening modem
- C. Lightening tank
- D. None of the above

Answer: A



17. What name is given to the phenomenon in which the earth shakes suddenly for a very short time ?

A. Lightening

- B. Thunderstorm
- C. Earthquake
- D. Both A and B

Answer: C

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18. Name one destructive natural phenomenon

which cannot be predicted in advance.





19. List three states in India where earthquakes

are more likely to occur.



20. Name the instrument used to measure and

record an earthquake.



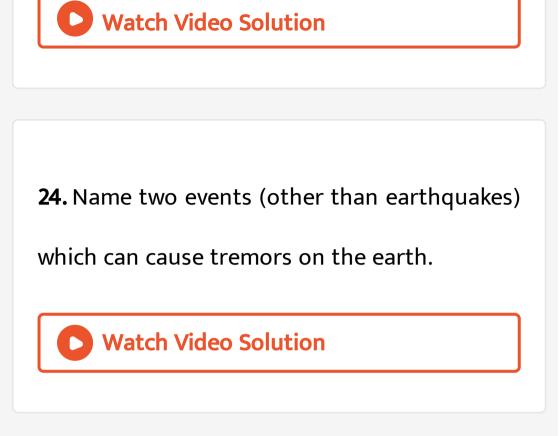
21. What was the magnitude of Bhuj and
Kashmir earthquakes on the Richter Scale ?
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22. Name the scale on which the magnitude

(or intensity) of an earthquake is expressed.

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23. For what purpose is Richter Scale used ?



25. In the context of an earthquake, which one

is deep under the ground :focus or epicentre ?

A. Focus

B. Epicentre

C. Both A and B

D. None of these

Answer: A



26. State whether the following statements

are true or false :

Like charge attract each other.

27. State whether the following statements are

true or false :

A charged glass rod attracts a charged plastic

straw.

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28. State whether the following statements

are true or false :

Lightning conductor cannot protect a building from lightning.

A. True

B. False

C. Both A and B

D. None of these

Answer: B

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29. State whether the following statements

are true or false :

Earthquakes can be predicted in a advance.

A. True

B. False

C. Both A and B

D. None of these

Answer: B

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30. State whether the following statements

are true or false :

An earthquake of magnitude 2 on Richter

Scale is ten times as strong as an earthquake

of magnitude 1 on the same Scale.



31. State whether the following statements are

true or false :

The plates of earth's crust are continuously moving.

32. State whether the following statements
are true or false :
An earthquake is measured and recorded by
using an instrument called
electrocardiograph.

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33. Fill in the following blanks with suitable

words :

Like charges....., unlike charges.....





34. Fill in the following blanks with suitable words :

Rubbing glass with silk makes

a.....charge on the glass.

View Text Solution

35. Fill in the following blanks with suitable words :

Combine your hair makes acharge

on the comb.



36. Fill in the following blanks with suitable words :

The negatively charged particles which are

transferred from one object to another during

charging by friction are called.....



37. Fill in the following blanks with suitable words :

The charging on an object by rubbing another

object is called charging by.....

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38. Fill in the following blanks with suitable words :

In an eletroscope, the aluminium leaves diverge because like charges.....

39. Fill in the following blanks with suitable words :

.....is provided in buildings to protect us from electric shocks due to any leakage of electric current.

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40. Fill in the following blanks with suitable words :

Lightning is nothing but an.....spark.

A. Electric

B. Magnetic

C. Electrostatic

D. Chemical

Answer: A

41. Why does a plastic comb rubbed with dry

hair attaract tiny pieces of paper ?



42. How will you charge a glass rob by the method of friction ?

43. How will you charge an onflated rubber

balloon by the method of friction ?

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44. How will you charge a plastic comb (plastic scale or plastic pen) by the method of friction

?

45. How will you charge a ballpoint pen refill

by the method of friction ?

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46. Explaint why, a charged body loses its

charge when we touched it with our hand.

47. What happens when the two plates of earth's crust moving in opposite directions slide past ont another ?

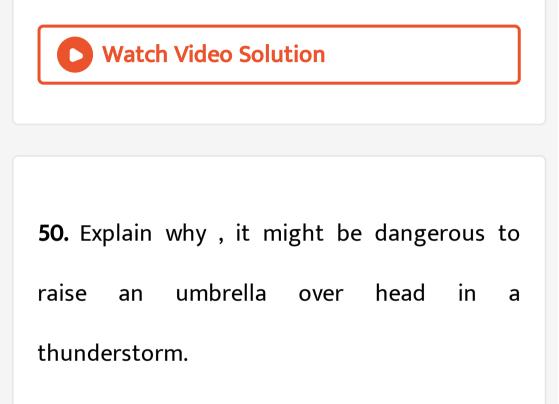


48. What happens when two moving plates of

earth's crust collide head on with each other ?



49. 100001 is a prime number or not ?





51. A person is in open space during a thunderstorm with no shelter (not even a tree) available nearby. Describe the safe position which he should take to protect himself from lightning. Why is this position considered safe ?

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52. Suggest three measures to protect ourselves from lightning.





53. Where is the upper end of the lightning

conductor fixd in a building ?



54. Where is the lower end of the lightning

conductor fixd and how ?

55. What precautions would you take to protect yourself during an earthquake if you are inside the house ?
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56. What precautions would you take to protect yourself during an earthquake if you are outdoors ?

57. State any two precuations which should be

observed by people living in seismic zones for

protection against earthquakes.



58. What is an electroscope?



59. What is lightning ?



60. Why does lightning usually strike tall buildings ?

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61. Why Does Lightning Strike ?

62. A pipe can fill a tank in 12 minutes. Another pipe can empty a tank in 20 minutes. They are opened in alternate minutes, How long will it take to fill the tank?

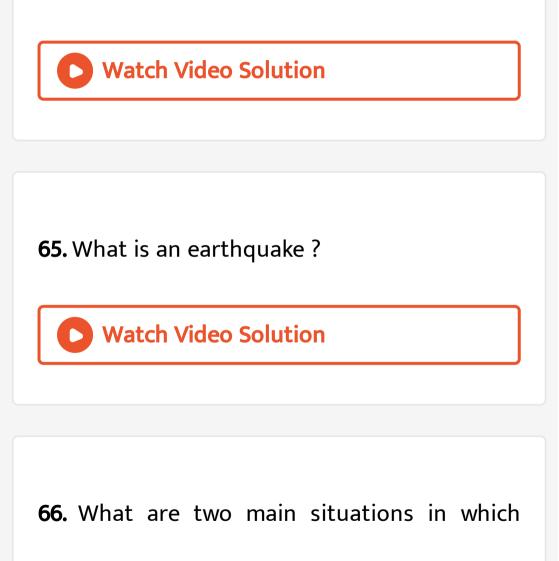
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63. Name the scientist who invented the

lightning conductor.

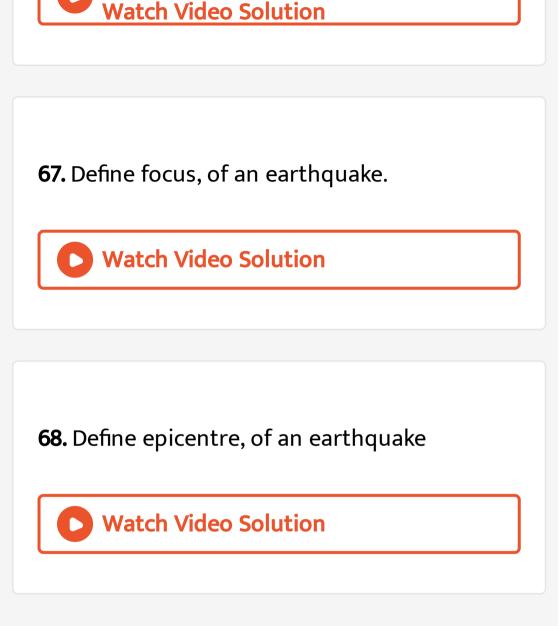
64. Why are lightning strike more frequent in

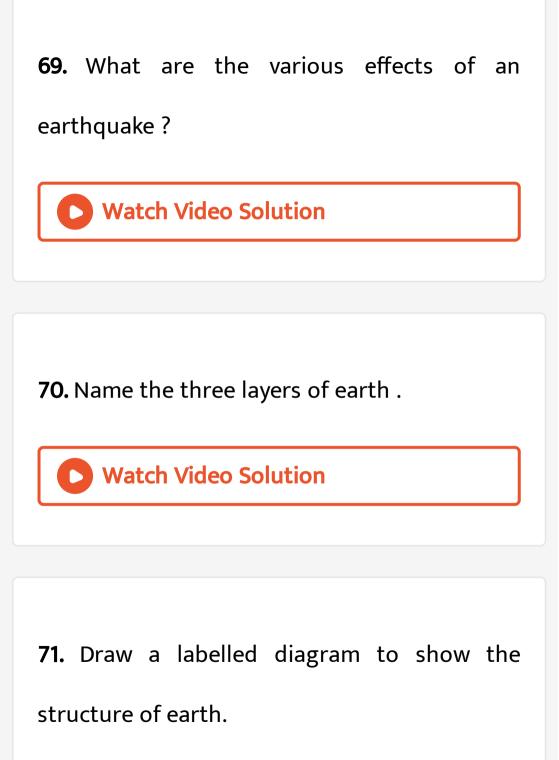
hilly areas?



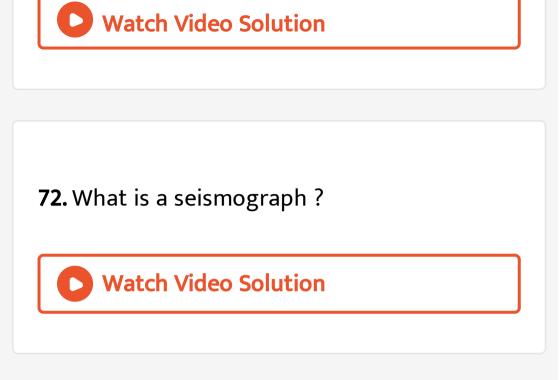
earthquakes occur ?







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73. Which of the following cannot be charged

by friction, if held by hand ?

A. a plastic scale

B. a copper rod

C. an inflated balloon

D. a woollen cloth

Answer: A::C::D



74. When a glass rod is rubbed with silk, it

A. the galss rod and silk cloth both acquire

positive charge.

B. the glass rod becomes positively charged while the silk cloth has a negative charge. C. the glass rod and silk cloth both acquire negative charge. D. the glass rod becomes negatively charged while the silk cloth has a positive charge.

Answer: A::B::C::D

75. Which of the following are transferred from one object to another when these two objects are charged by friction ?

A. atoms

B. protons

C. neutrons

D. electrons

Answer: D



76. The electric nature of lightning was established by a scientist named :

A. Isaac Newton

B. Robert Hooke

C. Benjamin Franklin

D. Thales

Answer: C

77. A plastic comb is rubbed with dry hair whereas a glass rod is rubbed with a piece of silk cloth. Which of these will get negatively charged ?

A.Plastic comb B.Glass rod C.Dry hair D.Silk cloth

A. A and B

B. B and C

C. A and D

D. B and D

Answer: A::D



78. Earthquakes

- A. Celsius scale
- B. Kelvin scale
- C. Decible scale
- D. Richter scale

Answer: A::C



79. An earthquake of magnitude 2 on richter scale is :

A. two times as strong as an earthquake of

magnitude 1

B. four times as strong an earthquake of

magnitude 1

C. ten times as strong an earthquake of

magnitude 1

earthquake of magnitude 1

Answer: C

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80. The epicentre of an earthquake is :

A. deep under the crust of earth

B. in the mantle of earth

C. on the surface of earth

D. in the core of earth

Answer: A::C

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81. The waves generated by earthquake

tremors are called :

A. ultrasonic waves

B. rhythmic waves

C. systemic waves

D. seismic waves

Answer: D

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82. When an object gets negetively charged by the process of friction, then :

A. the object loses some electrons

B. the object loses some protons

C. the object gains some electrons

D. the object gains some protons

Answer: C

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83. The device used of detecting charge (positive or negative) on an object is called :

A. stethoscope

B. telescope

C. kaleidoscope

D. electroscope

Answer: D

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84. A Charged object attracts an uncharged object by producing opposite charges in the nearer end of the uncharged object by the process of :

A. electric potential

B. electric induction

C. friction

D. electromagnetic induction

Answer: C::D

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85. A lightning conductor is a device which transfers :

A. electric energy

B. light energy

C. solar energy

D. photoelectric energy

Answer: C

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86. When a plastic comb is rubbed with dry hair, the hair get positively charged by friction. In this porcess :

A. the hair lose some positive protons

- B. the hair gain some positive protons
- C. the hair gain some negative electrons
- D. the hair gain some negative electrons

Answer: A

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87. Which of the following parth of the earth is

made up of molten iron ?

A. mantle

B. inner core

C. outer core

D. crust

Answer: C

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88. Which of the following area of India is the

most threatened by earthquake ?

A. North-East

B. Kashmir

C. West Bengal

D. Rajasthan

Answer: A::B

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89. The place inside the earth's crust where

the earthquake is generated is called :

A. seismic zone of the earth

- B. epicentre of the earthquake
- C. fault zone of the earth
- D. focus of the earthquake

Answer: A::C



90. An inflated rubber balloon is rubber with a woollen cloth whereas a ballpoint pen refill is rubbed with a polythene bag. Which of these

will get positively charged ?

A.Inflated rubber ballon B.Woollen cloth

C.Ballpoint pen refill D.Polythene bag

A. A and B

B. B nad C

C. A and D

D. B and D

Answer: A::B::C::D

91. Lightning can ever burn up tree. Lightning

contains a tremendous amount of :

A. heat energy

B. electric energy

C. chemical energy

D. nuclear energy

Answer: C

92. The tremendous electric charge in the armosphere which produce sheet lightning in the clods produced by the process of :

A. friction

B. induction

C. conduction

D. convection

Answer: C

93. Explain why, a charged balloon is repelled by another charged balloon whereas an uncharged balloon is attaracted by a charged balloon.

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94. Explain why, a glass rod can be charged by rubbing when had by hand but an iron rod cannot be charged by rubbing, if held by hand.



95. A glass rod is rubbed with a silk cloth and inflated rubber balloon is rubbed with a woollen cloth.

Now, out of glass rod, silk cloth, rubber balloon and woollen cloth :

which two objects acquire negative charge ?

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96. A glass rod is rubbed with a silk cloth and inflated rubber balloon is rubbed with a

woollen cloth.

Now , out of glass rod, silk cloth, rubber

balloon and woollen cloth :

which two objects acquire positive charge ?



97. What will you observe when the metal top

of an electroscope is touched with :

a positively charged object ?

98. What will you observe when the metal top

of an electroscope is touched with :

a negatively charged object ?



99. An earthquake measures 3 on Richter scale

Would it be recorded by a seismograph?

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:

100. An earthquake measures 3 on Richter

scale :

Is it likely to cause much damage ?