



PHYSICS

BOOKS - SURA PHYSICS (TAMIL ENGLISH)

ELECTRICITY

Example

1. The device which converts chemical energy into electrical energy is

A. fan

B. solar cell

C. cell

D. television

Answer:



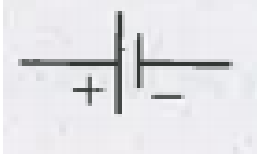
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2. Choose the symbol for battery.

A.



B.



C.



D.



Answer:



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3. In which among the following circuits does the bulb glow?

A.



B.



C.



D.



Answer:



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4. ___ is a good conductor

A. silver

B. wood

C. rubber

D. plastic

Answer:



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5. Fill in the blanks. ___ are the materials which allow electric current to pass through them.



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6. Fill in the blanks. Flow of electricity through a closed circuit is ___



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7. Fill in the blanks. ___ is the device used to close or open an electric circuit.



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8. Fill in the blanks. The long perpendicular line in the electrical symbol represents its ___ terminal.



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9. Fill in the blanks. The combination of two or more cell is called a ___.



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10. True or false . If false, give the correct statement. In a parallel circuit, the electricity has more the one path.



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11. True or false . If false, give the correct statement. To make a battery of two cells , the negative terminal of one cell is connected to the negative terminal of the other cell.



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12. True or false . If false, give the correct statement. The switch is used to close or open an electric circuit.



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13. True or false . If false, give the correct statement. Pure water is a good conductor of electricity.





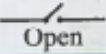

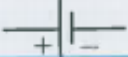
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14. True or false . If false, give the correct statement. Secondary cell can be used only once.



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15. Match the following.

S. No.	Symbol	Description
1.		open key
2.		cell
3.		bulb glows
4.		battery
5.		bulb does not glow



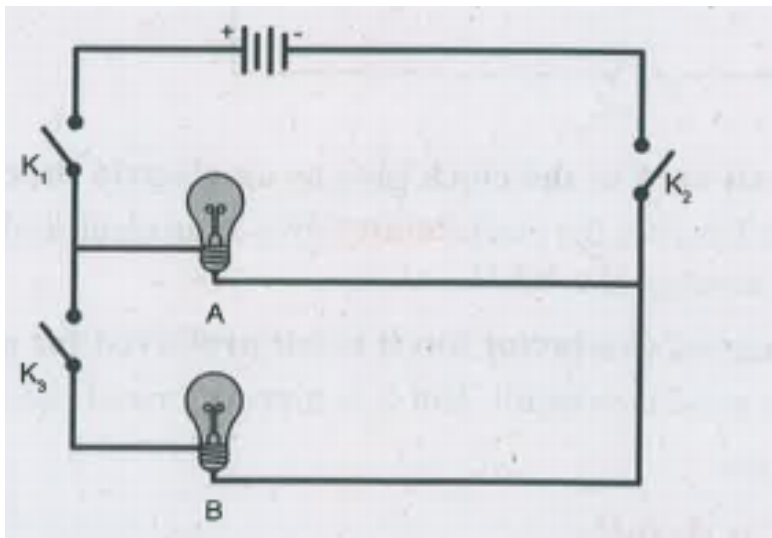
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16. Arrange in sequence. A CELL/ A DEVICE/
ELECTRICAL ENERGY/ IS CALLED/ IN
TO/CHEMICAL ENERGY/ THAT CONVERTS



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17. In the given circuit diagram, which of the given switch (s) should be closed, So that only the bulb A glows.



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18. Assertion(A):It is very easy for our body to receive electric shock.Reason(R): Human body is a good conductor of electricity.

A. Both A and R are correct and R is the correct explanation for A.

B. A is correct, but R is not the correct explanation for A.

C. A is wrong but R is correct.

D. Both A and R are correct and R is not the correct explanation for A

Answer:



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19. Can you produce electricity from lemon?



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20. Identify the conductor from the following figures.



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21. What type of circuit is there in a torch light ?



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22. Circle the odd one out .Give reaso for your choice. (Switch, Bulb, Battery, Generator)



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23. Draw the circuit diagram for series connection



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24. Can the cell used in the clock give us an electric shock ? Justify your answer.



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25. Silver is a good conductor but it is not preferred for making electric wires. Why?



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26. What is the source of electricity? Explain the various power stations in India.



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27. Tabulate the different components of an electric circuit and their respective symbols.



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28. Write short notes on conductors and insulators.



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29. Rahul wants to make an electric circuit. He has a bulb, two wires, a safety pin and a piece of copper. He does not have any electric cell or battery. Suddenly he gets some idea. He uses a lemon instead of a battery and makes a circuit. Will the bulb glow?





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30. Search ten words in the given word grid and classify them as conductors and insulators.

A	G	H	R	N	A	E	I	U	R
R	H	A	E	A	R	T	H	M	A
E	R	S	S	A	L	G	U	M	Q
T	P	L	A	S	T	I	C	N	T
A	T	I	R	O	N	A	A	O	N
W	J	A	E	I	W	O	O	D	T
A	B	D	M	C	O	P	P	E	R
E	R	U	B	B	E	R	M	P	T
S	L	R	H	E	S	S	A	I	I
A	T	N	A	S	B	H	N	L	R



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31. Which one is the atomic power station located in the following places?

A. Mettur

B. Papanasam

C. Neyveli

D. Kalpakkam

Answer:



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32. In atomic power station ___ is used to rotate the turbine.

A. Water

B. steam

C. Air

D. diesel

Answer:



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33. Secondary cells are used in ____

A. Mobile phone

B. wall clocks

C. watches

D. toys

Answer:



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34. If two or more ___ are connected in a circuit, then it is called series circuit.

A. keys

B. cells

C. connecting wires

D. bulbs

Answer:



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35. _____ is an instrument used in circuits to find the quantity of current flowing through the circuit.

A. Volt meter

B. Ammeter

C. Cell

D. Key

Answer:



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36. Thomas Alva Edison invented more than ___ useful inventions which are used in homes.

A. 100

B. 10

C. 500

D. 1000

Answer:



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37. Hydel electricity is produced in ___ in Tirunelveli district.



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38. In thermal power station ___ is used as fuel.



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39. _____ Cell used in automobiles like cars and buses large and very heavy.



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40. The rate of flow of electric charges in a circuit is called ____.



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41. ____ is a kind of fish which is able to produce electric current.



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42. _____ are used to connect devices.



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43. _____ was an American inventor, who invented electric bulb.



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44. Find whether the following sentences are true or false. Wing mills are located ar Neyveli

in Kanyakumari district.



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45. Find whether the following sentences are true or false. In atomic power station nuclear energy is converted into electrical energy.



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46. Find whether the following sentences are true or false. Primary cells are usually

produced in large sizes.



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47. Find whether the following sentences are true or false. Primary cells are used in mobile phones.



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48. Find whether the following sentences are true or false. In a circuit if the key is in open

(off)condition, then electricity will not flow.



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49. Find whether the following sentences are true or false. Ebonite do not allow electric charges to pass through them.



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50. Analogy. Thermal power station:Neyveli.

Hydel powered station:_____



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51. Analogy. Kayatharu in Tirunelveli district:
Wind mills. Koodankulam in Tirunelveli
district:_____



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52. Primary cells :Toys Secondary cells:_____



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53. Bulbs are connecte4d in series :Series circuit. Bulbs are connected in parallel: ___



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54. Match the following.

1. Thermal power stations	a)	Kinetic energy converted into electrical energy
2. Hydel power stations	b)	Nuclear energy is converted into mechanical energy and then electrical energy
3. Atomic power stations	c)	Wind energy is used to produce electricity.
4. Wind mills	d)	Heat energy is converted into electrical energy.



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55. Match the following.

i. Source of electricity	a)	Conductors
ii. To connect devices	b)	Bulb
iii. Consumes electricity	c)	Insulators
iv. Allow electric charges	d)	Connecting wires
v. Do not allow electric charges	e)	Cell



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56. What are the places in which atomic power stations located in Tamil Nadu?



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57. Where are the Hydel power stations located in Tamil Nadu?



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58. Where are Wind mills located in Tamil Nadu?



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59. How electric current is produced in Thermal power stations?



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60. What are the types of cells ? Give examples.



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61. What is meant by a battery or collection of cells.



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62. Differentiate Primary and Secondary cells.



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63. Define simple circuit.



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64. What is electric circuit?



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65. Give the types of circuits.



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66. Why parallel circuits are used in homes?



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67. Identify the conductors and insulators among the following? Copper, plastic, glass, iron, wood, Aluminum, China clay, impure water, Earth, ebonite



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68. Describe series circuit and parallel circuit with diagram.



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69. Describe open circuit and closed circuits with diagram.



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70. Describe series circuit and parallel circuit with diagram.



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71. Answer any one in brief. What are the safety measures to safeguard a person from electric shock?



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Exercise

1. The device which converts chemical energy into electrical energy is ____.

A. fan

B. solar cell

C. cell

D. television

Answer:

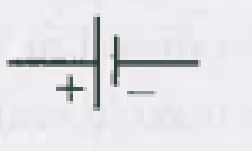


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2. Choose the symbol for battery.



B.



C.



D.



Answer:



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3. Which one is the atomic power station located in the following places?

A. Mettur

B. Papanasam

C. Neyveli

D. Kalpakkam

Answer:



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4. In thermal power station ___ is used as fuel.



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5. ____ was an American inventor, who invented electric bulb.



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6. ____ is the device used to close or open an electric circuit.



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7. Find whether the following sentence are true or false. If false correct the statement.

Pure water is a good conductor of electricity.



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8. Find whether the following sentence are true or false. If false correct the statement.

Secondary cell can be used only once.



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9. Find whether the following sentence are true or false.If false correct the statement.

Primary cells are used in mobile phones.



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10. Draw the circuit diagram for series connection



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11. Circle the odd one out .Give reaso for your choice. (Switch, Bulb, Battery, Generator)





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12. Can you produce electricity from lemon?



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13. Matching.

i.		a)	cell
ii.	 Open	b)	insulators
iii.	Source of electricity	c)	open key
iv.	Do not allow electric charges	d)	bulb (does not glow)



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14. Analogy. Primary cells: _____ Secondary

cells: _____



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15. Analogy. Thermal power station: Nayveli

Hydel power station: _____



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16. What is the source of electricity? Explain the various power stations in India.



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17. Why parallel circuits are used in homes?



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18. Answer any one in brief. What are the safety measures to safeguard a person from electric shock?



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19. Write short notes on conductors and insulators.



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