

Class: VII
Subject: Physics
Topic: Electric current and its effects
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

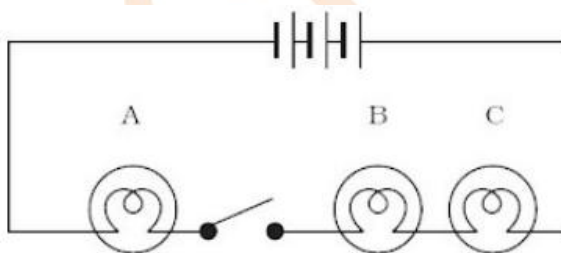
1. A combination of two or more cells is called ()
- A Battery
 - A Button cell
 - An Electric cell
 - Truck Battery

Sol: a

2. When an electric circuit from the positive terminal of the battery to the negative terminal of the battery is complete, then the circuit is said to be
- Closed
 - Open
 - No change
 - Disconnected

Sol: a

3. In the circuit shown below



Which bulb glows first when switch is put ON.

- A
- B and C
- All glow at the same time
- None glows because switch shouldn't be in between the bulbs

Sol: c

4. An electric wire connected in a circuit gets heated up when current is allowed to flow through it. This is due to
- Heating effect of current
 - Electrical effect of current
 - Musical effect of current
 - Optical effect of current

Sol: a

5. A glowing filament will be
- At a low temperature
 - At a high temperature
 - At atmospheric temperature
 - At the temperature of ice

Sol: b

6. The heat energy produced by a glowing bulb can be minimised by using _____ bulbs in place of ordinary electric bulbs ()
- A candle
 - CFL bulbs
 - Torch
 - Kerosene lamp

Sol: b

7. The wire which melts and breaks the circuit when large current is allowed to flow through it is called
- A fuse wire
 - Electric wire
 - Connecting wire
 - Filament

Sol: a

8. _____ piece is attracted by an electromagnet
- Wood
 - Iron
 - Plastic
 - Rubber

Sol: b

9. An electromagnet is one which behaves as a magnet when current is _____
- Allowed to flow through
 - Not allowed to flow through
 - Stopped from flowing through it
 - None of the above

Sol: a

10. When the current flowing through the fuse wire exceeds the safety limit, then it will be _____ breaking the circuit.
- Melted away
 - Remains the same
 - Damages the circuit
 - Makes the circuit remain connected.

Sol: a

11. Who discovered that when a compass needle is kept nearer to an electric circuit in which current is flowing, it deflects.
- Hans Christian Oersted
 - Michael Faraday
 - Galileo
 - Newton

Sol: a

12. When electric current passes through a wire, it behaves like a magnet. This is the
- Magnetic effect of current
 - Electrical effect of current
 - Heating effect of current
 - Optical effect of current

Sol: a

13. The resistance of an electric bulb drawing 1.2 A current at 6.0 V is _____.

- a. 0.5 Ohm
- b. 5 ohm
- c. 0.2 ohm
- d. 2 ohm

Sol: b

14. Which of the following does not use magnetic effect of electric current?

- a. electric fan
- b. electric bulb
- c. electric motor
- d. refrigerator

Sol: b

15. Which of the following is the best option while considering the safety of household electric appliances?

- a. We should use wire strip as fuses.
- b. We should use non-ISI marked MCBs
- c. We should use ISI marked MCBs
- d. We should use conduction with high melting point in fuses.

Sol: c

16. Compact fluorescent lamps (CFLs) are consider better than ordinary electric bulbs because?

- a. CFLs reduce wastage
- b. CFLs can be fixed in the ordinary bulb holders.
- c. Both (a) and (b)
- d. None of the above

Sol: c

17. The carbon rod in a dry cell is surrounded by a mixture of _____ and charcoal.

- a. Zinc oxide
- b. manganese dioxide
- c. carbon dioxide
- d. zinc oxide

Sol: b

18. Electromagnets are used in _____.

- a. secondary cell
- b. fuse
- c. dry cell
- d. electric bell

Sol: d

19. Electric fuse works on the principle of which effect of electric current?

- a. Luminous
- b. Magnetic
- c. Heating
- d. Chemical

Sol: c

20. The electric meter measures the amount of electricity used in _____.

- a. watts
- b. kilowatt hour
- c. amperes
- d. volts

Sol: b