

## Worksheet

### Science Grade 5

Name .....

Class .....

No .....

#### **PART 1: Multiple Choice (Questions 1-25)**

**1** Related to electricity! (page 74)

- A. chemical      B. electrical charge      C. electrical      D. circuit

**2** What are electrical charges? (page 75)

- A. positive charge      B. neutral charge      C. negative charge      D. A and C

**3** The measurement of electrical energy! (page 74)

- A. ohms      B. watts      C. amps      D. volts

**4** What is the measurement of electrical power? (page 74)

- A. volts      B. ohms      C. watts      D. amps

**5** We use \_\_\_\_\_ to see which objects have or don't have a charge. (page 77)

- A. pith ball      B. battery      C. lightning rod      D. circuit

**6** A basic law of universe is that charges that are alike (same) \_\_\_\_\_ each other! (page 76)

- A. don't attract      B. attract      C. pull      D. none of above

**7** Positive charge comes from \_\_\_\_\_, negative charge comes from \_\_\_\_\_. (page 74)

- A. proton-proton      B. electron-electron      C. proton-electron      D. electron-proton

**8** A bolt of lightning is about 30,000 °c; \_\_\_\_\_ times hotter than the surface of the sun. (page 77)

- A. 4      B. 5      C. 6      D. 7

**9** Benjamin franklin discovered the \_\_\_\_\_ which prevents damage caused by lightning. (page 78)

- A. dynamo      B. lightning rod      C. heat coupling      D. solar cell

**10** Lightning rod is a strip of \_\_\_\_\_ which goes from the top of building to the earth. (page 78)

- A. paper      B. plastic      C. metal      D. wood

- 11** The pushing away of one thing by another! (page 74)
- A. attraction      B. induction charge      C. repulsion      D. A and C
- 12** The pulling towards one thing by another! (page 73)
- A. repulsion      B. induction charge      C. attraction      D. all of the above
- 13** A flash of bright light in the sky! (Only light) (page 78)
- A. thunderstorm      B. thunder      C. lightning      D. thunderbolt
- 14** A loud noise in the sky that we can hear! (Only sound) (page 78)
- A. thunderstorm      B. lightning      C. thunderbolt      D. thunder
- 15** A flash of lightning and sound of thunder together! (sound and light) (page 78)
- A. lightning      B. thunderbolt      C. thunder      D. lightning rod
- 16** A device which change energy of movement into electrical energy! (page 74)
- A. dynamo      B. heat coupling      C. solar cell      D. dry-cell battery
- 17** Something that changes the heat and light from the sun into electricity! (page 74)
- A. lightning rod      B. solar cell      C. dynamo      D. heat coupling
- 18** It changes the chemical energy into electric power! (page 81)
- A. solar cell      B. dry-cell battery      C. dynamo      D. A and B
- 19** A means of creating electricity using different metals at different temperature! (page 74)
- A. heat coupling      B. dynamo      C. solar cell      D. dry-cell battery
- 20** A very big and heavy battery with lots of pieces of lead and containing sulfuric acid! (page 84)
- A. solar cells      B. dry-cell battery      C. car battery      D. heat coupling
- 21** They are often used in small things like calculators and clocks! (page 84)
- A. dry-cell battery      B. dynamo      C. solar cell      D. car battery
- 22** A material through which electric charges can easily flow is a/an \_\_\_\_\_. (page 85)
- A. conductor      B. non-conductor      C. insulator      D. all of the above
- 23** A material which does not allow electric charges to flow along is called a/an \_\_\_\_\_. (page 85)
- A. insulator      B. conductor      C. non-conductor      D. A and C

**24** Which one is an insulator? (page 85)

- A. copper                      B. iron                      C. lead                      D. wood

**25** Which one is a conductor? (page 85)

- A. gold                      B. wood                      C. plastic                      D. paper

**PART 2: Fill in the blank by using words inside the box. (pages 73 and 74)**

**F.** Attraction

**H.** Repulsion

**J.** Neutralize

**G.** Current

**I.** Battery

**26** Something for storing an electrical charge

\_\_\_\_\_

**27** To stop something from having an effect

\_\_\_\_\_

**28** The pulling towards one thing by another

\_\_\_\_\_

**29** A flow of water, air or electricity in a particular direction

\_\_\_\_\_

**30** The pushing away of one thing by another

\_\_\_\_\_