Chapter 14

MULTIPLE CHOICE QUESTIONS

- 1. (a) 2. (c) 3. (c) 4. (b)
- 5. (d)

VERY SHORT ANSWER QUESTIONS

- 6. Low melting point.
- 7. Miniature Circuit Breaker (MCB).

8.	(i)	conductor	(ii)	chemicals stored
	(iii)	safety device	(iv)	battery
9.	(i)	Battery	(ii)	Fuse
	(iii)	Torch	(iv)	Switch

- 10. No. The towel may burn due to the heat produced by the bulb. Besides, it will also result in wastage of electric energy.
- 11. CFLs do not waste electricity as heat.
- 12. To check the excessive flow of electric current.

SHORT ANSWER QUESTIONS

- 13. No, a geyser and a television set require different amount of current. Therefore the fuse used in these will be of different ratings.
- 14. Heating effect Geyser, room heater.Magnetic effect Electric bell, Cranes to lift magnetic material.
- 15. The child may put his/her fingers into the socket and he/she may get an electric shock which could be fatal.
- 16. Paheli's electomagnet will attract more pins as it has more number of turns of wire on it and thus a stronger electromagnet.

LONG ANSWER QUESTIONS

- 17. Some of the questions can be
 - (i) Why does the nail attract the pins?
 - (ii) What will happen if we connect more cells in the circuit?
 - (iii) What will happen if we use some other material like a straw in place of the nail?
 - (iv) What will happen if we wrap the wire on the nail more tightly?

or

Any other appropriate question.

- 18. (i) No, the amount of heat produced in both the cases will not be equal. Amount of heat produced in a wire depends upon the length of the wire.
 - (ii) No, the amount heat produced in the wire depends upon the thickness of the wire.
- 19. **Hint:** Working of an electric bell.



- 20. (i) <u>+</u>|⊢
 - (ii) _____
 - (iii) <u>_</u>,
 - (iv) _|-|-|--