

I. Choose the correct answer:

9x1=9

1. The unit of heat is \_\_\_\_\_.  
a. Newton    b. Joule    c. Volt    d. Celsius
2. Electricity is produced in \_\_\_\_\_.  
a. transformer    b. power station  
c. electric wire    d. television
3. \_\_\_\_\_ is a good conductor.  
a. silver    b. wood    c. rubber    d. plastic
4. When ice melts to form water, change occur in its \_\_\_\_\_.  
a. position    b. colour    c. physical state    d. composition
5. Rotation of earth is a \_\_\_\_\_ change.  
a. undesirable    b. chemical    c. natural    d. reversible
6. \_\_\_\_\_ is the percentage of nitrogen in air.  
a. 78%    b. 21%    c. 0.03%    d. 1%
7. The constituent of air that supports combustion is \_\_\_\_\_.  
a. nitrogen    b. carbon di oxide    c. oxygen    d. water vapour
8. Gas exchange takes place in plants using \_\_\_\_\_.  
a. stomata    b. chlorophyll    c. leaves    d. flowers
9. Food + \_\_\_\_\_ → Carbondioxide + water + energy.  
a. nitrogen    b. oxygen    c. argon    d. helium

II. Fill in the blanks:

9x1=9

10. \_\_\_\_\_ gas turns lime water milky.
11. \_\_\_\_\_ is the active component of air.
12. If the burning process does not emit flame then it is called \_\_\_\_\_
13. Changes that are harmful to us are \_\_\_\_\_.

14. Boiling of egg results in \_\_\_\_\_ change.
15. \_\_\_\_\_ change that can go back to original state.
16. The combination of two or more cells is called as \_\_\_\_\_.
17. \_\_\_\_\_ is the device used to close or open an electric circuit.
18. The hotness of the object is determined by its \_\_\_\_\_.

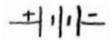
III. Write True or False:

9x1=9

19. Borosilicate glass do not expand much on being heated.
20. Growing of teeth in an infant is slow change.
21. Planting trees help in decreasing global warming.
22. Whales come up to the water surface to breathe in oxygen.
23. Burning of match stick is a reversible change.
24. Pure water is a good conductor of electricity.
25. Primary cell can be used many times.
26. The unit of heat and temperature are the same.
27. The expansion is length is called cubical expansion.

IV. Match the following:

9x1=9

- |   |   |              |
|---|---|--------------|
| 28. Ice cube  | - | Battery      |
| 29. Moving air  | - | Combustion   |
| 30. Expansion in Volume   | - | Kelvin       |
| 31. Stratosphere  | - | Friction     |
| 32. Rubbing two surfaces  | - | Ozone layer  |
| 33.  | - | No heat flow |
| 34. Temperature   | - | Cubical      |
| 35. Thermal Equilibrium   | - | wind         |
| 36. Oxygen  | - | 0° C         |

V. Answer any seven of the following:

7x2=14

37. What is temperature?

38. Rivet is heated before fixing in hole to join two metal plates.

Why?

39. What is the source of electricity?

40. Define Conductor.

41. Differentiate between primary cell and secondary cell?

42. What is solution?

43. Define a slow change.

44. What is thermal expansion?

45. Pick the odd one out and give reason switch, bulb, battery, generator.

46. Draw a circuit diagram for series connection.

VI. Answer any three in detail:

3x4=12

47. Explain physical and chemical change with example.

48. Explain thermal expansion with suitable example.

49. Define heat and explain the sources of heat.

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

51. Explain the different types of circuit.

VII. Draw any two diagram:

2x4=8

52. Chart showing heat vs temperature.

53. Inside view of touch light.

54. Process of melting and freezing.

VIII. Hots:

5x2=10

55. Complete Analogy.

a. Heat: Joule : : Temperature : \_\_\_\_\_°c

b. Ice cube : \_\_\_\_\_°c : : Boiling water \_\_\_\_\_°c

56. Search a conductor in the given word grid.

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

57. Missing letters.

a. \_\_\_\_\_ u r \_\_\_\_\_ i \_\_\_\_\_ g

b. N \_\_\_\_\_ t \_\_\_\_\_ \_\_\_\_\_ g \_\_\_\_\_ n

60. Write two undesirable changes.

58. Arrange in sequence.

a. Cells are                      when                      together                      they make

two or more

combined

a battery.