

I. Choose the correct answer:

(7 × 1 = 7)

1. Light is a form of _____.

- a) Matter b) Energy c) Medium d) Particle

2. Choose the translucent substance from the following _____.

- a) Glass b) Wood c) Water d) Clouds

3. _____ are that neutralize stomach acid.

- a) Antacids b) Antipyretics c) Analgesics d) Antihistamines

4. Light that hits a mirror gets _____.

- a) Transmitted b) Reflected c) Absorbed d) Refracted

5. Which is the hottest part in the flame of candle?

- a) Blue b) Yellow c) Black d) Waxy part

6. The lowest temperature at which a substance catches fire is called its _____.

- a) Boiling point b) Melting point
c) Critical temperature d) Ignition Temperature

7. Light travels in _____ line.

- a) Straight b) Parallel c) Horizontal d) Vertical

II. Fill in the blanks:

(5 × 1 = 5)

8. The moon _____ sunlight.

9. Sunlight is a blend of _____ Colours.

10. Fire produced by oil cannot be controlled by _____.

11. Combustion is a chemical reaction in which a substance reacts with _____.

12. _____ camera is a simple device which helps us to understand about the rectilinear propagation of light.

III. Write True or False.

(5 × 1 = 5)

13. All fuels form flame.

14. A plane mirror is opaque.

15. The image of right hand in a plane mirror looks like a left hand.

16. Oxygen is necessary for combustion.

17. Medicines are not used to treat the disease and to improve our health.

IV. Match the following:

(6 × 1 = 6)

- | | |
|---------------------------|---------------------------|
| 18. Sodium | - Garlic / Turmeric |
| 19. The sun | - Reduce Pain |
| 20. Band of seven colours | - Spontaneous combustion |
| 21. Phosphorous | - Spectrum of light |
| 22. Analgesic | - Primary source of light |
| 23. natural antiseptic | - ORS solution |

V. Analogy:

(2 × 1 = 2)

24. Inner zone of flame : _____;

Outer zone of flame : blue

25. tincture : Iodine and alcohol – water mixture;
histamine : _____.

VI. Very short answer:

(10 × 1 = 10)

26. First viral disease detected in human being was _____
(Yellow fever / dengue fever)

27. Name any one green house gas.

28. What are the main constituents of dettol?

29. How many types of combustion are there?

30. Name a substance which can be used as an antiseptic as well as disinfectant.

31. What are the essential conditions for producing fire?
32. Name the unit in which the calorific value of a fuel is expressed.
33. Which is the best reflector of light?
(Plane mirror / Paper)
34. _____ colour is scattered the least by air molecules (Red / Yellow)
35. Name the two types of reflection.

VII. Answer any 8 of the following: (8 × 2½ = 20)

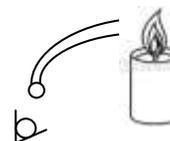
Short answer (Question No. **47** is Compulsory)

36. What is ignition temperature?
37. What are the parts of shadow?
38. What is plane mirror?
39. What is reflection of light?
40. What do you mean by lateral inversion?
41. Write the items given here in the correct column as source of light.
(Stars, Candle, Mirror, Planets)
42. Why should not medicine be taken without consulting doctor?
43. Why do antiseptics differ from disinfectants? Give one example for each.
44. What are luminous objects?
45. What are the three types of materials based on the absorption of light.
46. Is the moon a luminous object.
47. Say True or False.
 - a) The images that are obtained on a screen are called real images.
 - b) Materials that allow light to pass through completely are known as transparent material.

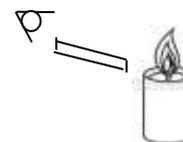
VIII. Answer any 4 of the following in detail: (4 × 5 = 20)

48. What are regular and irregular reflection? Explain with the help of diagram.
49. Mark a labelled diagram of a candle flame.
50. Write the characteristics of good fuel.
51. What are the characteristics of an image formed in a plane mirror?
52. Describe the pictures.

a)



b)



53. Explain the various types of combustion.