

## Chapter 4

### MULTIPLE CHOICE QUESTIONS

- |      |       |       |      |
|------|-------|-------|------|
| 1. b | 2. c  | 3. c  | 4. c |
| 5. c | 6. b  | 7. d  | 8. c |
| 9. c | 10. d | 11. a |      |

### VERY SHORT ANSWER QUESTIONS

12. The silver spoon on long exposure to moist air has lost its shine and appears dull whereas gold does not tarnish.
13. Raveena has got a solution because honey will dissolve in water.
14. **Hint:** Yes, Ground glass is translucent, so Shikha can be located.
15. Cotton ball initially floats and then sinks as it absorbs water.

### SHORT ANSWER QUESTIONS

16. Rubber band, leaf, eraser, cooked rice and fresh chapati are soft materials because they can be compressed or scratched easily.

17. **Soluble**

- (i) honey in water      (ii) glucose in water  
(iii) groundnut oil in mustard oil

**Insoluble**

- (i) turmeric in water      (ii) rice flour in water  
(iii) mustard oil in water

18. **Hint:**

Name of the material	Appearance Hard/Soft	Transparency (Transparent/ Translucent /Opaque)	Floats/Sinks in water	Soluble/ Insoluble in water
Lump of salt	Hard	Opaque	Sinks	Soluble
Green grass	Soft	Opaque	Floats	Insoluble

19. (a) aluminium – foil, aircrafts, etc.  
 (b) plastic – bucket, pencil box, etc.  
 (c) kerosene – fuel, solvent, etc.  
 (d) vinegar – food ingredient, preservative, etc.
20. a- (iii)                      b- (iv)                      c- (i)                      d- (ii)
- 21.

O	S	T	P	L	E
A	T	L	E	E	R
C	O	I	N	A	A
O	N	K	C	F	S
A	E	E	I	W	E
L	L	Y	L	R	R

The answer may include other items as well.

### LONG ANSWER QUESTIONS

22. **Hint:** Write on the basis of lustre, hardness, softness, roughness or smoothness.
23. **Hint:** Dissolved oxygen is available for animal and plants for respiration and survival.

24. **Hint:** Objects cannot be seen through opaque materials.

Example: Cardboard.

Objects cannot be seen clearly through translucent materials.

Example: Oiled paper.

Objects can be seen clearly through transparent materials.

Example: Hand lens

25. Soluble in water – Sugar, Salt, Honey, Copper sulphate crystals, Glucose
- Insoluble in water – Mustard oil, Sand, Sawdust, Chalk powder, Soil, Petals of flower, Wheat flour