

## Chapter 18

### MULTIPLE CHOICE QUESTIONS

- |      |       |       |       |
|------|-------|-------|-------|
| 1. b | 2. c  | 3. b  | 4. a  |
| 5. a | 6. c  | 7. d  | 8. c  |
| 9. b | 10. d | 11. c | 12. a |

### VERY SHORT ANSWER QUESTIONS

13. Chlorofluorocarbons.
14. (i) Combustion of fuel  
(ii) Industrial activities
15. (i) sulphur dioxide  
(ii) nitrogen dioxide
16. These data can be used to generate awareness about air pollution among people.
17. Solar energy and wind energy.
18. Lead, arsenic, fluorides (any two)

### SHORT ANSWER QUESTIONS

19. It is not right to burn dry leaves as it causes air pollution. The right way to dispose off the dry leaves is to convert them into compost.
20. A large number of automobiles stop for a short period at red light through out the day and release a large quantity of gases which create air pollution.
21. (a) unwanted, harmful, living, non-living, air pollution.  
(b) industries, air, refineries, gaseous, sulphur dioxide, nitrogen dioxide.  
(c) brushing, tap, litres  
(d) drinking, potable  
(e) microorganisms, dissolved.

22. (a)–(iii), (b)–(iv), (c)–(ii), (d)–(i)
23. Statements (b) and (d) are correct statements. The correct form of statements (a), (c) and (e) are as follows–
- (a) We can survive for some time without food but we cannot survive even for a few minutes without air.
  - (c) Carbon monoxide is produced by incomplete burning of fuels such as coal, petrol, diesel.
  - (e) Water which is suitable for drinking is called potable water.
24. (a) nitrogen, oxygen  
(b) carbon monoxide, smoke  
(c) Methane, greenhouse gases  
(d) global warming  
(e) sewage, polluted

### LONG ANSWER QUESTIONS

25. **Hint:**

- CFCs stand for chlorofluorocarbons.
- Refrigerators, air conditioners etc.
- Damage the ozone layer of the atmosphere.

26. **Hint:** Pollutants in air are discolouring white marble of Taj Mahal. The pollutants like sulphur dioxide and nitrogen dioxide react with the water vapour present in the atmosphere to form sulphuric acid and nitric acid respectively.

27. **Hint:**  $\text{CO}_2$  takes heat and does not allow it to escape into space. As a result, the average temperature of the earth's atmosphere is gradually increasing.

28. **Hint:**

- To reduce air pollution.
- To control global warming.

29. **Hint:**

1. Filtration
2. Boiling
3. By adding chlorine tablets.

30. **Hint:**

Reduce – While brushing your teeth, bathing etc.. we should not keep our taps on.

Reuse – Water used for washing vegetables, rice etc. can be used for gardening.

Recycle – Dirty water can be recycled after purification.

31. (i) (a) point sources (b) non-point sources.

(ii) Easily identified source or place of pollution is called point source e.g. municipal, industrial discharge pipe etc.

(iii) Agricultural run off, acid rain.

32.

<sup>1</sup> C	H	L	O	R	O	F	L	U	O	R	O	C	A	R	B	<sup>2</sup> O	N	
																Z		
	<sup>7</sup> G									<sup>4</sup> O						O		
<sup>3</sup> <sub>5</sub> C	A	R	B	O	N	M	O	N	O	X	I	D	E			N		
H	N									Y						E		
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