

**1. Which is wrong with respect to our responsibility as a human being to protect our environment?**

- (a) Avoiding the use of floodlighted facilities
- (b) Setting up compost tin in gardens
- (c) Using plastic bags
- (d) Restricting the use of vehicles

**Solution:**

Using plastic bags should be avoided to protect the environment.  
Hence option (c) is the answer.

**2. BOD stands for**

- (a) Biochemical Oxidation Demand
- (b) Biological Oxygen Demand
- (c) Biochemical Oxygen Demand
- (d) Bacterial Oxidation Demand.

**Solution:**

BOD stands for Biochemical Oxygen Demand.  
Hence option (c) is the answer.

**3. The layer of atmosphere between 10 km and 50 km above the sea level is called**

- (a) thermosphere
- (b) mesosphere
- (c) stratosphere
- (d) troposphere.

**Solution:**

The stratosphere is the layer of atmosphere between 10 km and 50 km above the sea level.  
Hence option (c) is the answer.

**4. Addition of phosphate fertilizers to water bodies causes**

- (a) enhanced growth of algae
- (b) increase in amount of dissolved oxygen in water
- (c) deposition of calcium phosphate
- (d) increase in fish population.

**Solution:**

The addition of phosphate fertilizers to water bodies causes enhanced growth of algae.  
Hence option (a) is the answer.

**5. Water samples with BOD values of 4 ppm and 18 ppm, respectively, are**

- (a) clean and highly polluted
- (b) highly polluted and highly polluted
- (c) highly polluted and clean
- (d) clean and clean.

**Solution:**

Clean water has a BOD value less than 5 ppm. Highly polluted water has BOD value of 17 ppm or more. Hence option (a) is the answer.

**6. Excessive release of CO<sub>2</sub> into the atmosphere results in**

- (a) global warming
- (b) formation of smog
- (c) polar vortex
- (d) depletion of ozone.

**Solution:**

Excessive release of CO<sub>2</sub> into the atmosphere results in global warming. Hence option (a) is the answer.

**7. The higher concentration of which gas in air can cause stiffness of flower buds?**

- (a) SO<sub>2</sub>
- (b) CO
- (c) NO<sub>2</sub>
- (d) CO<sub>2</sub>

**Solution:**

The higher concentration of SO<sub>2</sub> in the air can cause stiffness of flower buds. Hence option (a) is the answer.

**8. Air pollution that occurs in sunlight is**

- (a) oxidising smog
- (b) fog
- (c) reducing smog
- (d) acid rain.

**Solution:**

The main components of the photochemical smog result from the action of sunlight on unsaturated hydrocarbons and nitrogen oxides produced by factories and automobiles. Photochemical smog has a high concentration of oxidising agent. So, it is called oxidising agent. Hence option (a) is the answer.

**9. The gas leaked from a storage tank of the Union Carbide plant in Bhopal gas tragedy was**

- (a) phosgene
- (b) methylisocyanate
- (c) methylamine
- (d) ammonia.

**Solution:**

Methylisocyanate was the reason for the Bhopal gas tragedy.  
Hence option (b) is the answer.

**10. The maximum prescribed concentration of copper in drinking water is**

- (a) 0.05 ppm
- (b) 3 ppm
- (c) 5 ppm
- (d) 0.5 ppm

**Solution:**

The maximum prescribed concentration of copper in drinking water is 3 ppm.  
Hence option (b) is the answer.

**11. Taj Mahal is being slowly disfigured and discoloured. This is primarily due to**

- (a) acid rain
- (b) soil pollution
- (c) water pollution
- (d) global warming

**Solution:**

Acid rain is the reason for the discolouration of Taj Mahal.  
Hence option (a) is the answer.

**12. The upper stratosphere consisting of the ozone layer protects us from the sun's radiation that falls in the wavelength region of**

- (a) 400-550 nm
- (b) 600-750 nm
- (c) 200-315 nm
- (d) 0.8-1.5 nm

**Solution:**

Ozone protects us from the sun's radiation that falls in the wavelength region of 200-315 nm.  
Hence option (c) is the answer.

**13. Identify the wrong statement in the following.**

- (a) Acid rain is mostly because of the oxides of nitrogen and sulphur.
- (b) Chlorofluorocarbons are responsible for ozone layer depletion.
- (c) Greenhouse effect is responsible for global warming.
- (d) Ozone layer does not permit infrared radiation from the sun to reach the earth.

**Solution:**

Ozoneplanket is the thick layer of ozone which is effective in absorbing harmful ultraviolet rays given out by the sun. It acts as a protective shield. It does not permit the ultraviolet rays from the sun to reach the earth.

Hence option (d) is the answer.

**14. Which one of the following substances used in dry cleaning is a better strategy to control environmental pollution?**

- (a) Sulphur dioxide
- (b) Carbon dioxide
- (c) Nitrogen dioxide
- (d) Tetrachloroethylene

**Solution:**

Liquid carbon dioxide is better to replace conventional halogenated solvents (potentially carcinogenic). Hence option (b) is the answer.

**15. The smog is essentially caused by the presence of**

- (a)  $O_2$  and  $O_3$
- (b)  $O_2$  and  $N_2$
- (c) oxides of sulphur and nitrogen
- (d)  $O_3$  and  $N_2$ .

**Solution:**

Smog is caused by oxides of sulphur and nitrogen. Hence option (c) is the answer.

**16. Which of the following conditions in drinking water causes methemoglobinemia?**

- (a)  $> 50$  ppm of chloride
- (b)  $> 50$  ppm of nitrate
- (c)  $> 50$  ppm of lead
- (d)  $> 100$  ppm of sulphate

**Solution:**

The concentration of nitrate greater than 50 ppm in drinking water causes methemoglobinemia. Hence option (b) is the answer.