

### Week 11 Solution

1) The Pollution Standard Index (PSI) scale has span from

- a. 0-200
- b. 0-300
- c. 0-400
- d. 0-500
- e. None of the above options

Answer: d

**Feedback:** The PSI is reported as a number on a scale of 0 to 500. The index figures enable the public to determine whether the air pollution levels in a particular location are good, unhealthy, hazardous or worse. 0 being no concentration and 500 being significant harm.

2) The major contributor of Carbon monoxide is

- a. Motor vehicle
- b. Industrial processes
- c. Stationary fuel combustion
- d. Plastic wastage
- e. None of the above options

Answer: a

**Feedback:** Carbon monoxide is a product of incomplete combustion of organic matter. It is often produced by motor vehicles that run on gasoline, diesel, methane, or other carbon-based fuels and from tools, gas heaters, and cooking equipment that are powered by carbon-based fuels such as propane, butane and charcoal.

3) The Total dissolved solids (TDS) can be reduced by the following method

- a. Distillation
- b. Reverse osmosis
- c. Ion exchange
- d. a, b, c
- e. None of the above options

Answer: d

**Feedback:** Total dissolved solids (TDS) is a measure of the combined content of all inorganic and organic substances contained in a liquid in molecular, ionized or micro-granular suspended form. TDS can be reduced by Distillation, Reverse osmosis, Ion exchange.

- 4) Which gas exists in the highest concentration in the Earth's atmosphere?
- a. Hydrocarbons
  - b. Ozone
  - c. Oxygen
  - d. Nitrogen
  - e. carbon dioxide

Answer: d

**Feedback:** Nitrogen accounts for 78% of the atmosphere, oxygen 21% and argon 0.9%. Gases like carbon dioxide, nitrous oxides, methane, and ozone are trace gases that account for about a tenth of one percent of the atmosphere.

- 5) Which one of the following is an example of non-renewable resources?
- a) Wind
  - b) Water
  - c) Vegetation
  - d) Coal and minerals
  - e) None of the above

Answer: d

**Feedback:** Nonrenewable resources are those found inside the earth, and they took millions of years to form. These include the fossil fuels, oil, natural gas, and coal and nuclear energy.

- 6) A biosphere reserve conserves and preserves..
- a. wild animals
  - b. wild land
  - c. natural vegetation
  - d. a, b, c

e. none of the above is true

Answer: d

**Feedback:** A biosphere reserve is "protected areas divided into zones with different which conserves and preserves wild animals, wild land, and natural vegetation.

7) Which one of the following is not a fossil fuel

- a. Natural gas
- b. Petrol
- c. Coal
- d. Uranium
- e. All are correct

Answer: d

**Feedback:** except uranium all re fossil fuels i.e natural gases, petrol, coal.

8) Floods can be prevented by\_\_\_\_\_

- a. Afforestation
- b. cutting the forests
- c. tilling the land
- d. removing the top soil
- e. none of the above

Answer: a

**Feedback:** Humans cannot stop the rains from falling or stop flowing surface water from bursting its banks. These are natural events, but we can do something to prevent them from having great impact. But Afforestation is the best method with which floods can be prevented.

9) Each human generates \_\_\_\_\_ of garbage each day.

- a. 45 pounds
- b. 14.5 pounds.
- c. 4.5 pounds
- d. 5.5 pounds

e. None of the above.

Answer: C

**Feedback:** The average person generates 4.3 pounds of waste per day. This is 1.6 pounds more than most produced back in 1960. Where does it all go? Approximately 55% of 220 million tons of waste generated each year in the United States ends up in one of the over 3,500 landfills.

10) Acid rain is caused by:

- a. Global warming
- b. Fossil fuels
- c. Airborne toxins
- d. None of the above

Answer: B

**Feedback:** Acid rain is caused by a chemical reaction that begins when compounds like sulfur dioxide and nitrogen oxides are released into the air. These substances can rise very high into the atmosphere, where they mix and react with water, oxygen, and other chemicals to form more acidic pollutants, known as acid rain.