

## SIO 15 (FQ 2024) – Test 9 Homework #7 Questions

Test questions and choices of possible answers in the actual test may be modified from the questions below.

- 1) The Saffir-Simpson scale has how many categories?
  - a) 3
  - b) 4
  - c) 5
  - d) 6
  
- 2) When is the official Atlantic hurricane season?
  - a) Jan-Apr
  - b) Apr-Jun
  - c) Jun-Nov
  - d) Aug-Sep
  
- 3) Numerically, hurricanes can fall into one category for highest sustained wind speed, but into another one for lowest central air pressure.
  - a) true
  - b) false
  
- 4) There was no category 5 hurricane in the 2024 Atlantic hurricane season.
  - a) true
  - b) false
  
- 5) Fire is essentially the reverse chemical process of which of these?
  - a) corrosion
  - b) respiration
  - c) photosynthesis
  - d) convection
  
- 6) In a fire, carbon dioxide is consumed and oxygen produced?
  - a) true
  - b) false
  
- 7) Low humidity during a Santa Ana shortens which of these stages of fire?
  - a) Preheating phase
  - b) pyrolysis
  - c) flaming combustion
  - d) glowing combustion

- 8) Which of these is NOT one of the characteristics of a Santa Ana?
- a) Low relative humidity
  - b) Severe thunderstorms
  - c) Unusually high day-time temperatures
  - d) Strong winds
- 9) Which of these is not one of the four stages of fire?
- a) Preheating phase
  - b) Postcooling phase
  - c) Pyrolysis
  - d) Glowing combustion
  - e) Flaming combustion
- 10) What was the main human cause of the largest wildfires in California in recent years?
- a) Tossed cigarette butts
  - b) electric powerlines or related equipment
  - c) Failing catalytic converters
  - d) Arson
  - e) Lightning strikes
- 11) In the last 24 years, the three years with the largest number of wildfires in California occurred in the last 11 years.
- a) true
  - b) false
- 12) During which months is the risk for large Santa Ana-fueled wildfires greatest?
- a) June-July
  - b) January-February
  - c) October-November
  - d) August-September
  - e) July-August
- 13) In southern California, when do most Santa Anas occur?
- a) September-October
  - b) December-February
  - c) September - February
  - d) August-September
  - e) October-November

14) Which of these is not a leg of the fire triangle?

- a) water
- b) fuel
- c) oxygen
- d) heat

15) Which of the following four records does not apply to 2024 Hurricane Helene?

- a) strongest on record to strike the Florida Big Bend area
- b) deadliest Atlantic hurricane since 2017 Hurricane Maria
- c) strongest Atlantic hurricane in 2024
- d) deadliest hurricane to strike the U.S. mainland since 2005 Katrina

16) In the last 24 years, the three years with the largest acreage burned in California wildfires occurred in the last 6 years.

- a) true
- b) false

17) Which of these has been the largest single-source wildfire in California history?

- a) 2008 Thomas fire
- b) 2021 Dixie fire
- c) 2024 Line fire
- d) 1991 Tunnel fire
- e) 2018 Camp fire

18) Which of these has been the deadliest wildfire in modern California history?

- a) 2008 Thomas fire
- b) 2018 Camp fire
- c) 2024 Line fire
- d) 1991 Tunnel fire
- e) 2021 Dixie fire