

GPS Questions for National FFA Contest

White Track

- 1) GNSS is the acronym for which of the following?
 - a) Global Navigation System Structure
 - b) Global Navigation Satellite System
 - c) Global Navigation Satellite Synchronization
 - d) Global Neo-navigation Satellite Series

- 2) Which of the following statements pertaining to WAAS is false?
 - a) Originated by the FAA
 - b) Improves the accuracy of the GPS signal
 - c) Unusable in cloudy, adverse weather conditions
 - d) Available in the United States only

- 3) What was the original motivation for the development of WAAS?
 - a) To provide comparable accuracy to the instrument landing system for aircrafts
 - b) To increase the effects of ionosphere delay
 - c) To improve the accuracy of precision farming
 - d) To improve the accuracy of naval ship maneuvers around the world

- 4) Which of the following coordinates are in the latitude/longitude degrees-minutes format?
 - a) 32° 00.00' 098° 00.00'
 - b) 32' 00" 00.00° 098' 00" 00.0°
 - c) 0571825 3558325
 - d) 057:18.25 35:58.325

- 5) Which of the following is an example of a GNSS?
 - a) NORAD
 - b) LORAN
 - c) GLONASS
 - d) WAAS

6) True or False: Differential GPS can eliminate all errors common to both the reference receiver and roving receiver?

a) True

b) False

7) GPS satellites use hyper-accurate _____ to measure time.

a) Quartz clocks

b) Electron clocks

c) Timex clocks

d) Atomic clocks

8) Signal errors produced in the immediate vicinity of the GPS receiver are known as _____ errors.

a) Ephemeris

b) Multipath

c) Ionosphere

d) Troposphere

9) True/False: A GPS cannot be used in 911 emergency tracking systems to due to accuracy issues.

a) True

b) False

10) Which of the following help global positioning satellites maintain orbital accuracy information?

a) Lunar satellites

b) Epidural lasers

c) Geospatial transaxles

d) Ground Stations