

GPS Questions for FFA Contest

White Track

- 1) A measurement from at least _____ satellites can determine a position on earth.
 - a) 1
 - b) 2
 - c) 3
 - d) 4

- 2) The position format hddd.ddddd is known as which of the following?
 - a) horizontal degrees
 - b) degrees minutes fractional seconds
 - c) decimal degrees
 - d) degrees minutes

- 3) The layer of atmosphere ranging in altitude from 50 to 500 km above the earth's surface that is a significant error source is called the _____?
 - a) Ionosphere
 - b) Troposphere
 - c) Hemisphere
 - d) Metasphere

- 4) Satellites emit _____ through the earth's atmosphere to be used by GPS receivers to calculate satellite ranges.
 - a) radio signals
 - b) lunar signals
 - c) interstellar signals
 - d) geo-positional trilateral ventricular signals

- 5) T/F A "landmark" positioning system is subject to errors based on movement or environmental factors.
 - a) True
 - b) False

- 6) A complicated positioning system that utilizes “fixed” references to determine one’s position based on the distance traveled from one position to the next is known as?
- a) Celestial
 - b) GPS
 - c) OMEGA (beacons)
 - d) Dead Reckoning
- 7) DGPS is intended to _____.
- a) Decrease the accuracy of the satellite signal during war
 - b) Lengthen the distance of the satellites range from earth
 - c) Increase the accuracy of the coordinates
 - d) Act as a counter-balance to the R2D2/C3PO anomaly
- 8) DGPS is the acronym for which of the following phases?
- a) Digital Global Positioning System
 - b) Differential Global Positioning System
 - c) Diurnal Global Positioning System
 - d) Diagnostic Global Positioning System
- 9) GPS signal accuracy is enhanced by _____.
- a) Low satellite orbits
 - b) Error Modeling
 - c) Atmospheric delays
 - d) Refracted GPS signals
- 10) The datum NAD 83 is also known as _____.
- a) North American Datum of 1983
 - b) North America Datum of 1983
 - c) Northern America Datum of 1983
 - d) Northern American Datum of 1983