

## GPS Questions for FFA Contest

### White Track

- 1) Which of the following navigational systems has had the greatest impact on global navigation?
  - a) Celestial
  - b) LORAN
  - c) OMEGA
  - d) Satellite
  
- 2) Which of the following statements pertaining to celestial positioning systems is false?
  - a) Used by maritime and aeronautical navigators
  - b) Uses the stars, planets, sun, and or moon to obtain positional data
  - c) Usable in cloudy, adverse weather conditions
  - d) a computerized version of celestial positioning systems is still used in aircrafts such as Lockheed Martin's SR-71 "Blackbird"
  
- 3) True or False: Agriculture and Marine Shipping Applications were the inspiration behind development of GPS?
  - a) True
  - b) False
  
- 4) Which of the following coordinates are in the UTM coordinate system?
  - a)  $32^{\circ} 00' 00.0''$   $098^{\circ} 00' 00.0''$
  - b)  $32' 00'' 00.00^{\circ}$   $098' 00'' 00.0^{\circ}$
  - c) 0571825 3558325
  - d) 057:18.25 35:58.325
  
- 5) How many satellites are needed to determine the exact position of the GPS receiver?
  - a) 3
  - b) 4
  - c) 6
  - d) 24

- 6) True or False: GPS receivers measure distance by using the travel time of radio signals.
- a) True
  - b) False
- 7) To maintain orbital accuracy, GPS satellites are continuously monitored by \_\_\_\_\_
- a) NASA
  - b) NOAA
  - c) NAPA
  - d) U.S. Department of Defense
- 8) Which of the following describes orbital error data?
- a) Ephemeris
  - b) Multipath
  - c) Ionosphere
  - d) Troposphere
- 9) Which of the following coordinates are in degrees-minutes-seconds format?
- a)  $32^{\circ} 00' 00.0''$   $098^{\circ} 00' 00.0''$
  - b)  $32' 00'' 00.0^{\circ}$   $098' 00'' 00.0^{\circ}$
  - c)  $32^{\circ} 00.000'$   $098^{\circ} 00.000'$
  - d)  $32.00000^{\circ}$   $098.00000^{\circ}$
- 10) The WGS 84 map datum is best described as which of the following?
- a) a global grid
  - b) a regional grid
  - c) a local grid
  - d) a North American grid