

**ELEKTRIJADA 2006****I Fill in the blanks with the words from the box.**

Name.....

Team

intended	determine	compares	transmit	use	
maintain	distance	accuracy	applications	exact	once
multi-channel	essentially	subscription	based		

The Global Positioning System (GPS) is a satellite-..... navigation system made up of a network of 24 satellites placed into orbit by the U.S. Department of Defense. GPS was originally..... for military....., but in the 1980s, the government made the system available for civilian..... GPS works in any weather conditions, anywhere in the world, 24 hours a day. There are no..... fees or setup charges to use GPS. GPS satellites circle the earth twice a day in a very precise orbit and ..... signal information to earth. GPS receivers take this information and use triangulation to calculate the user's..... location. ...., the GPS receiver ..... the time a signal was transmitted by a satellite with the time it was received. The time difference tells the GPS receiver how far away the satellite is. Now, with ..... measurements from a few more satellites, the receiver can ..... the ..... the user's position has been determined, the GPS unit can calculate other information, such as speed, track, trip distance, distance to destination, sunrise and sunset time and more. Today's GPS receivers are extremely accurate, thanks to their parallel ..... design. Garmin's 12

parallel channel receivers are quick to lock onto satellites when first turned on and they..... strong locks, even in dense foliage or urban settings with tall buildings. Certain atmospheric factors and other sources of error can affect the ..... of GPS receivers.

**15 points**

**II Fill in the gaps with the appropriate forms of the verbs in brackets:**

After Korean Air Lines Flight 007, carrying 269 people,..... 1(shoot down) in 1983 after ..... 2(stray) into the USSR's prohibited airspace, the USA President Ronald Reagan .....3 (issue) a directive making GPS freely available for civilian use, once it ..... 4(sufficiently/ develop), as a common good.<sup>[12]</sup> The first satellite .....5 (launch) in 1989.

Over the last decade, the U.S. ....6 (implement) several improvements to the GPS service, .....7 (include) new signals for civil use, all while ..... 8 (maintain) compatibility with existing GPS equipment.

GPS modernization ..... 9 (now/become) an ongoing initiative to upgrade the Global Positioning System with new capabilities ..... 10 (meet) growing military, civil, and commercial needs. The program ..... 11 (implement) implemented through a series of satellite acquisitions, including GPS Block III and the Next Generation Operational Control System (OCX).

GPS ..... 12 (own and operate) by the United States Government as a national resource.

**12 points**

**III Choose the words from the box that fit the explanations:**

Consumption	galvanise	payload	maritime	coat
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recover	hazardous	differentiate	scrap	conventional	
energy-efficient	cord	durability	power	superior	component
ascend	descend	extract	application	insulation	

1. to coat (iron or steel) with zinc; *especially* : to immerse in molten zinc to produce a coating of zinc-iron alloy
2. involving or exposing one to risk (as of loss or harm)
3. manufactured articles or parts rejected or discarded and useful only as material for reprocessing
4. the special use or purpose to which something is put
5. to rise to a higher point, rank, or degree; proceed from an inferior to a superior degree or level
6. Being greater or better than average; extraordinary
7. conforming or adhering to accepted standards, as of conduct or taste
8. lastingness: permanence by virtue of the power to resist stress or force
9. To perceive the difference between things; to discriminate

### 9 points

Recycling ..... 1 a common practice for most of human history. In the ..... 2 sense, recycling of a material would produce a fresh supply of the same material—for example ..... 3 office paper would be .....4 into new office paper, or used foamed polystyrene into new polystyrene. However, this is often difficult or ..... 5 expensive (compared with producing the same product from ..... 6 materials or other sources), so "recycling" of many products or materials involves their ..... 7 in producing different materials (e.g., paperboard) ..... 8 Another form of

recycling is the salvage of certain materials from complex products,  
 .....9 due to their intrinsic value (or due to their  
 .....10 nature (e.g., removal and reuse of mercury from various  
 items).

- |                 |                 |              |               |
|-----------------|-----------------|--------------|---------------|
| 1. A is         | B has been      | C was        | D is being    |
| 2. A stricter   | B strictest     | C strictable | D restrictive |
| 3. A using      | B usage         | C used       | D abused      |
| 4. A converting | B has converted | C conversion | D converted   |
| 5. A much       | B too           | C loads of   | D a lot       |
| 6. A ore        | B raw           | C scrap      | D enhanced    |
| 7. A reuse      | B using         | C abuse      | D revamp      |
| 8. A instead    | B from          | C out        | D of          |
| 9. A both       | B each          | C either     | D none        |
| 10. A hazard    | B hazarding     | C hazardable | D hazardous   |
| 11.             |                 |              |               |

**10 points**