

# ANSWER KEY

## Unit 1

### 2a

- 1 navigation
- 2 (motorized) delivery vehicles
- 3 (floating) motor cars
- 4 drift
- 5 main keyboard
- 6 innovative uses of

### b

- 1 uses
- 2 use
- 3 user's, useful
- 4 use

### 3a

- 2 d    3 b    4 f    5 a    6 c

### 4a

- 1 allows
- 2 prevents
- 3 ensures, enables

### b

- 1 allows / enables
- 2 ensures
- 3 prevents

### c

- 1 allow/enables
- 2 allow/enable
- 3 ensure
- 4 allow/enable
- 5 prevent

### 6a

See text in Exercise 6b on page 8

### c

- 3 f    5 a    4 b    5 g    6 h    7 c  
8 d    9 f

### 7a

- 2 support
- 3 attached
- 4 raised
- 5 power
- 6 ascend
- 7 transport

### c

The notes are missing articles (a/an, the) and some auxiliary verbs (is, be).

### 8a

See audiotape 1.3 on page 86

### b

- 1 By a floating structure.
- 2 To attach the base to the seabed
- 3 Ships would carry them
- 4 Collisions between the cable and space debris
- 5 The anchors would be raised and the station would be moved.

### 9a

#### Suggested answer

#### The anchoring system

The wind loads on the cable will be huge. What are the implications for the anchoring system? The base will need to be moved continuously and sometimes urgently. What temporary system could be used to hold the base in position?

Should the base be in shallow water near the coast, or in deep water further offshore? The choice will have an impact on the design of the anchor system.

#### The propulsion system

Will the weight of the cable allow the base to be moved by its own propellers, or will a more powerful system for propulsion and control be required? For example, an external power source.

### b

#### Suggested answers

#### Anchor system

It will be possible to anchor the base more securely in shallow water, near the coast. A permanent anchor structure could be built on the ocean bed, in shallow water. The base station could then be fixed securely to it with cables. If several anchor structures are built at different locations along the coast, the base station can be moved between them.

#### Propulsion system

Two powerful boats used for pulling them could be used as an external power source. However, the base station could be driven by its own propellers. The large, powerful engines needed to propel it would be heavy, but that isn't necessarily a disadvantage, as extra mass, and therefore extra inertia, would help to make the base more stable.

### 10

A technical advantage is a type of technology that is superior in some way – for example, more efficient, more powerful or more reliable – compared with a related type of technology – for example, a competing product (one sold by another company) – or compared with an earlier model of the same product.

### 11a

It's a flat belt for lifting elevators which is used instead of a cable. Compared with cables, the Gen2 system has a number of advantages.

### b

- 2 c    3 b    4 f    5 c    6 a

### c

- 2 reduces
- 3 conventional
- 4 reduce
- 5 enhance
- 6 conventional
- 7 superior
- 8 eliminates

### 12a

- 1 enhanced
- 2 reduced
- 3 elevated
- 4 conventional
- 5 superior

### b

- 1 c    2 b    3 a    4 d

### c

- 2 dramatically
- 3 entirely
- 4 extremely
- 5 considerably
- 6 fights
- 7 exceptionally
- 8 significantly

### d

- 1 entirely, totally
- 2 considerably, dramatically
- 3 exceptionally, highly

### 14a

- 1 That you shouldn't use jargon or it will sound like nonsense and that technical concepts can be difficult to explain, even using everyday language.
- 2 Explanations that are boring.
- 3 Speaking to an adult as if you're talking to a child.

### c

Richard suggests using everyday language to avoid explanations not being understood; using some jargon and then explaining it using everyday language to avoid sounding patronising; explaining difficult concepts by comparing technical points with things in everyday life to illustrate them, and using some humour to avoid sounding dull.

### 15b

- 2 A column going down into the ground
- 3 So tall
- 4 Concrete poured on the construction site in its final position
- 5 Made at a factory, away from the site
- 6 So heavier in
- 7 Like a giant hammer
- 8 Like a giant drill
- 9 A kind of clay suspension / a sort of mud

### d

- 1 put simply, in other words, basically
- 2 effectively, essentially, basically
- 3 what we call, what we refer to as
- 4 if you imagine, if you picture

### 16

#### Suggested answers

There are two types of pile foundation: end-bearing piles and friction piles. Essentially, end-bearing piles are used when you have soft ground which is on top of hard ground or rock. Basically, the piles go through the soft ground and sit on the hard ground below. It's a bit like building over water. The soft ground is like water, which can't support anything, and the hard ground below it is like the seabed. Put simply, the piles are like stilts. Friction piles are different. They're used when there's no hard ground. In simple terms, the sides of the pile grip the soft ground around them. If you picture a nail in a piece of wood, it's the same thing. The nail is gripped by the wood around it. Sometimes the bottoms of friction piles are made wider. Imagine a leg with a foot at the bottom, it's the same principle.

## Unit 2

### 2a

- 2 Glass
- 3 Copper
- 4 Aluminium
- 5 Timber
- 6 Rubber
- 7 Plastic

### b

- 2 a    3 b    4 f    5 c    6 h  
7 e    8 g

### c

- 2 with
- 3 from
- 4 from
- 5 with
- 6 of
- 7 of
- 8 from

### 3b

The main point that Irina makes is that it's important to consider the total environmental impact of a product, including producing it (green), using it (brown) and recycling it (gold-leaf). She gives the example of an energy-saving light bulb.

# Cambridge English For Engineering Answer Key

**Michael Hoelscher**



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web power split device which is a single pg in this paper in this section the basic mechanisms of a single pg and possible configurations are described for further developments in clutch placements fig 1 shows a pg and its equivalent lever diagram 15 the three nodes on the lever diagram represent the ring gear carrier

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web jul 18 2016 model four touring perhaps this belongs in the newbie forum but i m trying to understand the functioning of the psd i understand that initially mg2 may power the car with the ice stopped this means that mg1 is turning and because it is a permanent magnet device it should be generating power

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web feb 10 2015 i ran across this page yesterday and was fascinated by the inner workings of the power split device psd i also noticed that there was enough information there for me to put together an animation and working interactive demo of the psd with controls for input from ice and mg2 so i spent a couple hours putting it together in maya

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web nov 6 2016 introduction many resources and threads exist that describe the prius power split device they correctly describe how rpms can be calculated and how torque is split but i did not find any that would correctly describe how the power is split the solution seems easy at first power is rpm multiplied by torque

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web on 17 february 2010 us secretary of defense robert gates announced that as of 1 september the name operation iraqi freedom would be replaced by operation new dawn on 18 april us and iraqi forces killed abu ayyub al masri the leader of al qaeda in iraq in a joint american and iraqi operation near tikrit iraq

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