one cannot simply <u>reboot</u> the human brain and <u>reload the files and programs</u>. The problem is that Alzheimer's does not only <u>erase information</u>; it destroys the very <u>hardware</u> of the brain, which is composed of more than 100 billion nerve cells (neurons), with 100 trillion connections among them.

\* bit here means a unit of information on a computer that must be either 0 or 1

#### Unit 10

- 10.1 1 constant, frequent, intermittent (going from most frequent to least frequent)
  - 2 A sample chosen by chance is a *random sample* whereas a sample chosen as typical of the population as a whole is a *representative sample*.
  - 3 an isolated phenomenon
  - 4 You might prefer your results to be conclusive, but inconclusive results can also be valuable.
  - 5 A role can also be pivotal or decisive.
  - 6 Excess energy this suggests that there is extra, whereas sufficient just suggests that there is enough.
  - 7 Mother, father and brothers/sisters play an influential role in a child's development.
  - 8 listening and writing
- **10.2** 1 came 3 played 5 invalidate
  - 2 consumes, generate 4 investigated 6 combines/combined
- 10.3 1 It took the team a long time to devise a way to solve their problem.
  - 2 During the war we had to break off contact with colleagues abroad.
  - 3 There has been a lot of heated debate surrounding the issue of global warming.
  - 4 Ian Hartmann was invited to take on the role of project leader.
  - 5 Part of my role was to collate the results of our experiments.
  - 6 The doctor wanted me to provide a blood sample for analysis.
  - 7 Scientists all over the world contributed to the debate on cloning.
  - 8 A new and unexpected phenomenon seems to be emerging.
  - 9 Using shading helps to differentiate the key elements in a graph.
- 10.4 1 taking, random 5 crucial
  - 2 define 6 engaging, heated
  - 3 proper, practical 7 publish, interim 8 discern, conflicting

#### Unit II

frequent

- II.I 1 amount 4 majo
  - 4 major/considerable/large/significant
  - 2 particular (or special) 5 3 impact (or influence/effect) 6
    - 5 minor/small6 important/significant/interesting
- 1 There is widespread opposition among students to the idea of longer semesters.
  - 2 The destruction of the riverbank will cause an inevitable decline in the numbers of small mammals.
  - 3 School standards are a common (or frequent) concern among parents nowadays.
  - 4 Nowhere in the article does the author make explicit mention of the 20 cases which were never resolved.
  - 5 There is very little common ground between the two ways of addressing the problem.
  - 6 The paper is too general and lacks specific/relevant examples.

frequency

1.3	adjective	noun	adjective	noun	
	significant	significance	important	importance	
	relevant	relevance	valuable	value	_
	interesting	interest	useful	use //	

broad

breadth

# **11.4** Possible answers

- 1 of great/considerable relevance
- 2 of great/considerable value
- 3 of huge/enormous importance
- 4 a work of great breadth
- 5 a work of great/huge/enormous/considerable significance
- 6 of considerable use
- 7 of great/considerable interest
- 8 of high frequency

#### Unit 12

- 12.1 1 convincingly demonstrated / demonstrated convincingly
  - 2 observed earlier / earlier observed
  - 3 specifically refers / refers specifically
  - 4 is closely identified
  - 5 briefly discusses
  - 6 firmly establishes
  - 7 loosely based
  - 8 critically examine

#### **12.2** Suggested answers

- 1 hypotheses
- 3 causes/origins/nature
- 5 need
- 2 trends/changes 4 issue/question

## **12.3** Possible answers

- 1 interpretation, approach, solution, methodology, theory, etc.
- 2 threat, challenge, problem, question, dilemma, danger, menace, risk, etc.
- 3 facts, evidence, causes, issues, reasons, etc.

### **12.4** Suggested answers

The world is facing a looming water crisis. Disputes over allocation have <u>steadily increased</u> in the last decade, and demand has <u>grown rapidly</u>. Water is likely to generate the same degree of controversy in the 21<sup>st</sup> century as oil did in the 20<sup>th</sup>. If we take no action now, new conflicts are likely to <u>occur periodically</u> around the world. At the moment, instead of seeking solutions which <u>directly address</u> multiple needs, countries <u>focus</u> a little too <u>narrowly on</u> local issues and <u>typically opt for</u> expensive and inferior solutions. What is needed are decisions which can be <u>quickly implemented</u> and a debate which will <u>seriously consider</u> more than the short term needs of individual states.

# **12.5** 1 directly address

- 2 consider seriously / seriously consider
- 3 steadily increasing (Although *growing rapidly* might also be possible here, it is less likely given the time period in the sentence.)
- 4 focuses/focused narrowly / narrowly focuses/focused
- 5 quickly implemented / implemented quickly

#### Unit 13

**13.1** 1 in line with

5 With the exception of

2 at this stage

- 6 on the basis of
- 3 on the one hand, on the other hand
- 7 on the whole, in terms of

4 In addition to

- 8 on behalf of
- 13.2 1 The conclusions are fair in most respects, though some are questionable.
  - 2 Dr Carr's team got the grant, in spite of being the smallest team to apply.
  - 3 We had little money to spare; in other words, we were underfunded.