Science & technology

1. Replace the words and phrases in **bold** in the sentences with a suitable alternative from the box.

cybernetics advances analysed breakthrough combined discovered experimented genetic engineering development innovations invented life expectancy molecular biology nuclear engineering proliferated react research safeguards a technophile a technophobe

- 1. The company is carrying out *scientific study* to find a cure for AIDS.
- 2. The *planning and production* of the new computer system will take some time.
- 3. Modern home entertainment systems and other *modern inventions* are changing everyone's lives.
- 4. Some elements *change their chemical composition* when mixed with water.
- 5. The scientists have *created* a new machine to automate the process.
- 6. Who was the person who *found* penicillin?
- 7. When the food was *examined closely and scientifically*, it was found to contain harmful bacteria.
- 8. Rain *joined together* with CO₂ gases produces acid rain.
- 9. Ron is *terrified of modern technology.*
- 10. Geoff is very interested in modern technology.
- 11. Protection against accidents in this laboratory are minimal.
- 12. The companies *performed scientific tests* with different types of glue before they found one that worked properly.
- 13. Brian is studying *the techniques used to change the genetic composition of a cell so as to change certain characteristics which can be inherited.*
- 14. Sarah is studying the things which form the structure of living matter.
- 15. Christine is studying how information is communicated in machines and electronic devices in comparison with how it is communicated in the brain and nervous system.
- 16. Neil is studying *the different ways of extracting and controlling energy from atomic particles.*
- 17. There has been a *sudden success* in the search for a cure for cancer.
- 18. *The number of years a person is likely to live* has increased a great deal thanks to modern medicine and technology.
- 19. The number of schools offering computer programming courses has *quickly increased* in the last ten years.
- 20. In spite of all the *progress* it has made in the last 50 years or so, medical science still knows little about the brain.

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2. The person describing their computer in this passage is not very familiar with computer terminology. Replace the phrases in bold with more appropriate words and phrases from the box.

base unit chat rooms components crashed download email files gaming hardware Internet keyboard laptop load log on monitor PC software mouse printer scanner stream virus websites wireless

OK, here's my new desktop computer which has been designed to be used by just one person (1)..... As you can see, it has five parts which make up the whole thing (2) Now, the large box with the slots and sliding disc carrier (3) is the most important part. It carries all the stuff that makes the your own games and other programs used by computers for doing particular jobs (6), like photo processing and office suites. Next to it there is the thing that looks like a small television (7) so you can see what the computer is doing. To the right of that, there is the machine that lets you make colour copies of the documents and other things that you create on the computer (8) (this particular one incorporates a machine you can use to copy pictures on to your computer, a bit like a photocopier (9)). You control the computer using the rectangular flat thing with all the letters and numbers on (10), or the object with the little wheel on the top which you can move across the desk (11) These usually have a lead connecting them to the computer, but as you can see, mine is not physically connected to the computer, and instead sends electronic signals through the air (12)

lt's a very	useful	machine,	of	course.	Once	you	start	using	it	by	entering	а	password
(13)			····· ,	you can	create	inforr	nation	that yo	ou st	ore	under a pa	rtic	ular name:
(14)			á	and doc	uments	, mov	e (15) .						pictures
from your camera and, well, loads of things really. The best thing, however, is that you can access the													
thing that links computers from around the world (16)													
out millions of special computer pages created by companies, organisations and individuals all over													
the world (17), go shopping, play games (I really enjoy playing games													
on my com	p <mark>uter</mark> (18	3)), p	lay (19)					music
and videos, and send electronic letters to (20))	your frien	ds a	nd family.
It's also great for contacting people using online places where people communicate with each other in													
real time (21) and other social networking sites.													

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3 Now look at this essay and fill in the gaps with one of the words or phrases from Exercises 1 and 2. In some cases, more than one answer will be possible. You may need to change some of the word forms.

'Technology has come a long way in the last 50 years, and our lives have become better as a result. Or have they?'

Of course we all rely on modern science and technology to improve our lives. However, we need to make sure that we can control it before it controls us.