| Read the passage below and then answer the questions 1–8 about it. Boxes () in the passage indicate missing information. Choose the most appropriate answers based on what is stated in the passage. Choose ONE answer for each question unless stated otherwise. | | | | | | | | |
|--|--|---|---|---|--|--|---------------------|--|
| number compar | of births in some are ed to the national av any cause-and-effect | reas of the UK. For erage. It was an in | r every addition credibly strong | al cellphone t correlation ar | ower in an area, i nd would have req | of cellphone towers and 17.6 more babies were buired further investigat say that because I was t | orn | |
| Thi to a cor UK in a were de | relation where there romantic mood, and ependent on a third v | is no cause-and-et decades of studies variable: population | ffect link. The si have revealed r | ght of cellpho o biological ir | ne towers was no npact from <1> the | look at how people resp t putting the citizens of m. In this case, both fac an area and the numbe | the | |
| I sh in great up also too appo neighbo | detail that this was a being an exercise in ealing, and people cou | ear: in the article lan exercise in show 2 people dould not help but put bwers and young far | ving that correla on't read the art to forward their o milies with man | tion does not e icle properly k wn reasons. M | equal a cause-and- pefore commenting fore than one perse | population size. I explai effect relationship. It en g on it. The correlation on suggested that expen e. Of course, it also attrac | dec was sive | |
| | If this study holds | up, then it's in str | ong support of | the existing & | 2> scientific evider | nce that low-level radia | tio | |
| Ac | from cellphone towe | | | causing anoth | er. There is alway | s the chance that someth | ning | |
| else is i for the DNA ha | nfluencing the data, mysterious "Phantor ad been found at all | causing the link. F m of Heilbronn*," a the crime scenes. | or example, bet a woman who h Tens of thousan | ween 1993 and ad been linke ds of police he | d 2008, the police d to forty crimes, ours were spent lo | in Germany were search including six murders; ooking for Germany's "n woman who worked in | ning hei nost | |
| factory | that made the cotton | swabs* used to co | llect DNA evide | nce. | | | | |
| will be | course, some correlat two that match almo | tions happen to be est perfectly comple | completely rand etely by <4> accid | om. If enough <u>ent</u> . There is | data sets are com even a website de | pared, sooner or later tl dicated to fake correlati | ons | |
| where y | ou can search throug | gh publicly availab | le data and find | matches. I di | d a quick check a | gainst the number of pe | opl | |
| in the C | rded" had an 87 perc | tained a Ph.D.* in ent correlation wit | h the "Number | of people who | tripped over their | mber of math Ph.D. deg own two feet and died. | ree " | |
| As | a mathematical tech | nique, correlation | is powerful. It o | an take a coll | ection of data and | l provide a good measur tool, not the answer. M | e o | |
| of math | ematics is about find | ling the correct ans | swer but, in stat | istics, the nun | nbers coming out o | of calculations are never | the | |
| | | | | | answer, not the en | nd. It takes a bit of com | moi | |
| | nd clever insight to g , when you hear | | | | ve been steadily in | creasing, you could ass | um | |
| | | | | | | nich means more people US, 77 percent of all can | | |
| cases a | re found in people ag | ed fifty-five or olde | r. As much as it | pains me to s | ay it, when it come | es to statistics, the num | ber | |
| | everything. | | | | | | | |
| < <note mathe<="" td=""><td>:S*>> matician = a person who</td><td>o studies or is an expe</td><td>rt in mathematics</td><td></td><td></td><td></td><td></td></note> | :S*>> matician = a person who | o studies or is an expe | rt in mathematics | | | | | |
| Phant | om of Heilbronn = ハイノ | | | | | | | |
| | swabs = 綿棒 = Doctor of Philosophy | (博士号) | | | | | | |
| 1 Choo | ose the most appropr | iate answer | | | | | | |
| 1. | ① was there | ② will there be | ③ would t | here be 4 | has there been | (5) had there been | | |
| 2 | 1 how | 2 how far | 3 whose | 4 | those | 5 such | | |
| 3 | 1 Therefore | ② Together | 3 Otherw | rise 4 | As though | (5) Nevertheless | | |
| 2. 4 | What does <1> th | hem refer to? | | | | | | |
| 6 c | oroject ② BBC I ause-and-effect link romantic mood | Radio 4 3 ma 7 sig 11 dec | | 8 ce | ow people respond ellphone towers tudies | ⑤ a correlation ⑨ citizens | | |
| 0 1171 : | 1 : 0 | 1 - 11 11 : - 41 - C | 11 | | | | | |
| 3. Which | ch is the most stresse <2> scientific | sci-en-tif-ic ① ② ③ ④ | mowing word? | | | | | |
| 4 Cl- | er com il un gar l | 11 m 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | |
| | aga tha co- | a alegaet in | 3.07 | | | | | |
| _ | | s closest in meaning | | (a) : | Ø 1 | (E) James | | |
| 4. Cho | <3> argue | s closest in meanir (1) fight (1) fate | 2 claim 2 surprise | ③ improve | e 4 resolve 4 unfortu | ⑤ deny nate ⑤ collision | | |

| - | | What last 100 it of a to | | | | | |
|-----------------|--|---|---|--|--|--|--|
| 5. | 9 | What does <6> it refer to? | | | | | |
| | | thematical technique et changes | 2 correlation7 one variable | 3 collection 8 match | 4 data 9 changes | (5) measure (10) the other | |
| 6. | 10 number | What is the correct expl of births? | anation given for the | e correlation bety | ween the number | of cellphone tow | ers and the |
| | more 2 Fam towe 3 Some 4 Area | phones increase the chance cellphone towers. ilies with babies and your rs in areas where they live e areas have a higher popu s that are cheaper to live | ng children use cellph e. alation, so there are r | ones more often | than older people | , so there are mon | re cellphone as. |
| 7. | also: | more babies. How were the police able | to colve the mystery | of the "Phantom | of Hollyconn"? | | |
| 1. | ① They ② They ③ They ④ They | used criminal statistics for set a trap using her DNA got a call from someone we discovered that she owner realized that the DNA at | rom 1993 to 2008. and criminal profile. who wanted the reward d a cotton swab facto | rd. | of Heibronn ? | | |
| 8. | 12 | What is the main messag | e that the author wa | nts to express in | this article? | | |
| | ② It is 3 We s | stics is an interesting and easy to mislead people wit hould use statistics as a st ronmental dangers, accide | th statistics, so we she tarting point to expla | ould not trust ne in a possible rela | ws articles which tionship between | use them. events. | |
| inf | ormation | assage below and then an a. Choose the most approp aless stated otherwise. | | | | the passage indic Choose ONE answ | |
| int | ople have erview o | is a normal occurrence in e when exposed to certai r a final exam. It also can l n a factory. | n input. Stress can | be produced by | non-life-threaten | ing situations su | ch as a job |
| an an for | Stressf increase d an expa instance | ul input can be real or ima in blood flow to the musc ansion of the pupils* of the c, help us <2> flee from a str | les, a decrease in bloc e eyes. These physical | od flow to the dig changes in the b | estive system*, a ody help us to res | rise in blood suga pond to the stress | ar (glucose), s. They may, |
| boo | | lly returns to normal. | laa dananda an hayr la | | to it // (1) N | If the stuggeful in | aut is shout |
| leadisthe | ed, our b (3) >> d to dise leases. < | ress affects us, however, all odies recover easily. Long-term exposure to stease. Description The imm Continuous stress of cholesterol, which block doesn't affect all people in its energies into production andle stress the best are work or lifestyle. They typallenge, not a threat. Unforted. | D ≫ Some argue the ressful input, however the system protects also results in chance the same way. Some the same way. Some work. Such people individuals who have ically have clear object that the same way are work. Such people individuals who have ically have clear object that the same way. | at a little stress er, can have seri- us from bacteri- ges in the blood v and may eventual people can recog e are better able e a sense of being ectives and a stro- pple are so lucky. | may actually impous consequences a and viruses that ressels. © >> lly result in seriou nize the stress that cope with strest in control, 17 and sense of purpo Many of us are no | rove a person's person's person's person's person's fluct cause colds, fluct transfer as diseases. These changes made as diseases. Cause feeling and the stress that the s | erformance. stress may a, and other ay quicken may en able to believe that t may come eir jobs and |
| fre | One of e as poss | timportant or view oursely the most important strate tible. As a college student, or if you are taking very di | gies is preventive: sel for instance, you may | lecting an enviror y want to select a | nment and creatin realistic class loa | d. If you have to | work to pay |
| ha | ndle mor evention ategies f | e easily. Try to arrange yo strategies, effectively copin irst. | our schedule in a way ng with stress may re | y that avoids cre quire physical an | ating unnecessar d mental strategie | y stress. In addit es. Let's consider | ion to these the physical |
| rec | te ride, a luces the eks of co | the easiest ways to reduc swim, or a cross-country overall stress in one's life nsistent exercise. | skiing trip reduces t Individuals who are | ension for two to easily stressed u | five hours. When usually find that s | n 18 regula stress levels declin | rly, exercise ne after two |
| ph | ı are ner ysical str | se can be supplemented by vous about, tension often ress. Stretching or going for m relax. Massage therapy | builds in your muscle or a walk can help. So | es. Periodically stome people find it | topping to release t useful to tighten | that tension help their muscles for | os to reduce rcefully and |

Psychological factors may also play a role in stress. In many instances, the mind's response to stressful input is excessive. (4) Being able to recognize and deal with thoughts that make you overly stressed helps you better control the stress they produce. Start paying attention to specific thoughts that cause anxiety in your life. Do they seem excessive? If so, why? For example, are you nervous before exams? Why? Would better preparation reduce your anxiety? You might

DVDs and the internet can teach relaxation methods, as can trained therapists.

2

| ma | nageme Findin | ent could help you ng the source of you | better cope with s ir anxiety and tak | tress. ing positive action | n to reduce it <u>an</u> | efore and still trium re helpful ways of red 19 in feelings of | lucing stress. H | lowever, | |
|-------------------|--|---|--|--|--|---|--|--|--|
| Ma to f | ny peop eel bett | | ow self-esteem. A t Psychological hel | rained psycholog p is as important | ist can help yo | u find the causes and | <u>l a</u> ssist you in l | earning | |
| on street Whathe | Biofeed you and ess. Dur en one o <5> freq machir | dback is another for a connects them to ring a biofeedback of the indicators showing of the signate would start bee | orm of stress relief a machine that resession, your train nows that you are al. For example, if pping. By breathin | In this form of st nonitors heart ra ner first helps you suffering from str your heart starte g deeply and rela | te, breathing, is relax, and the ress, a signal is deating faste axing, you cons | a trained healthcare muscle tension, or so n asks you to describ given off. Your goal i or when you thought sciously slow down y | ome other indic be a stressful si as to consciously about taking a our heart rate; | ators of tuation. reduce n exam, at that | |
| | | | | | | to recognize the sym | | s and to | |
| < <n di</n | NOTES*> | >> system = the organs in | | | | ed with digesting food | | | |
| - | - | ire = 針療法 | | | | | | | |
| 1. (| Choose | the answer that is | closest in meanir | ng. | | | | | |
| | 13 14 15 | <1> potentially <2> flee <3> channel | ① presumably ① take out ① observe | ② consistently② fight off② solve | ③ randomly③ drop out③ acquire | 4 dangerously4 run away4 direct | ⑤ incredibly⑤ let go⑤ develop | | |
| 2. | 16 it taken | | ntence was taken | from the passage. | Which location | n indicated by ≪ ① | > - ≪ ⑦ | ≫ was | |
| | | ≪ One reason t | his happens is tha | at the body's imm | une system is o | often weakened by st | ress. » | | |
| 3. | Choose | the most appropri | ate answer. | | | | | | |
| | 17 18 19 20 | ① instead of ① does ① rooted ① taken | 2 although2 did2 worried2 given | 3 rega 3 done 3 cove 3 prov | e red | until doing concerned driven | 5 despite5 to do5 composed5 shown | | |
| 4. | 21 | For <4> Being ab | <u>le to</u> , find the M | IAIN VERB of the | e sentence. | | | | |
| | ① Bein ⑦ stres | | | gnize and deal crol | 4 thoughts 1 stress | 5 make 11 produce | 6 overly | | |
| 5. | Identify | the most stressed | l vowel, and choos | e the word that h | as the same vo | wel pronunciation. | | | |
| | ① heat | t 2 sit 3 we | et 4) cat (5) hij | rd 6 cut 7 fo | ood (8) book | 9 stop 10 stay | D sky 12 old | | |
| | | | | | | | y Dily G Old | | |
| T | 6. 23 Which TWO of the following are NOT mentioned as a physical response to stress? 1 Your heart rate quickens. 2 More blood goes to the muscles. 3 You develop a headache. 4 Your blood sugar increases. 5 Your eyes produce tears. | | | | | | | | |
| 7. | 24 | - 30 Based | on paragraphs 5- | 10, choose the an | swer for each t | o complete the table | graffice engages in | | |
| | Table: S | Stress Managemer | nt | | | | | | |
| | 24 | strategies | | 6 strategies | | 28 strategies | 3 | | |
| | · cr | elect a good environment the right lifes ontrol your 25 | style | exercise do 27 train stretch or go for | | • 29 your find the source take a biofeed | | | |
| | ① man ⑥ sleep | | | | prevention relaxation | ⑤ schedule ⑥ diet | | | |

Read the passage below and then answer the questions 1–6 about it. Boxes (_____) in the passage indicate missing information. Choose the most appropriate answers based on what is stated in the passage. Choose ONE answer for each question unless stated otherwise.

The will to stay alive is the primary <1> urge of living things, and humans use their intelligence and willpower to avoid death as long as possible. "Choose life, so that you and your children may live," commanded the God of the Bible. A long life is the ultimate <2> blessing.

How long do you think an average person in the world can be expected to live today? You should <3> keep in mind that the global average is dragged down by early deaths from hunger and disease in the high population countries in the

developing world, particularly by the deaths of infants, who mix a lot of zeroes into the average.

The answer for 2015 is 71.4 years. How close is that to your guess? In a recent survey, Hans Rosling found that less than one in four people in Sweden guessed that it was that high, a finding consistent with the results of other multinational surveys of opinions on longevity (having a long life), literacy, and poverty in what Rosling called *The Ignorance Project*. The logo of the project is a chimpanzee because, as Rosling explained, "If for each question I wrote the alternatives on bananas, and asked chimpanzees in the zoo to pick the right answers, they'd have done better than the respondents." However, the respondents, including students and professors of global health, were likely not so much 44> ignorant as they were pessimistic*.

Figure 1, a graph from Max Roser, displays general patterns of life expectancy (i.e., expected length of life) over the centuries in world history. At the point where the lines begin, in the mid-18th century, life expectancy in Europe and the Americas was around 35, where it had been for the 225 previous years for which we have data. Life expectancy for the world as a whole was 29. These numbers are in the range of expected lifespans for most of human history. The life expectancy of hunter-gatherers was around 32.5, and it probably decreased among the people who first took 34

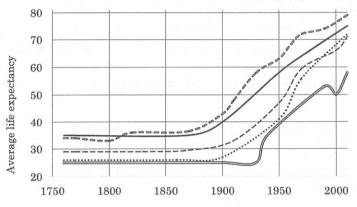


Figure 1: General patterns of life expectancy

farming because of their diet and the diseases they caught from their livestock and each other. It returned to the low 30s by the Bronze Age, where it stayed for thousands of years, with small changes across centuries and regions. During this period of human history, any advance in agriculture or health was quickly canceled by the resulting increase in population.

But starting in the 19th century, the world began the Great Escape, the economist Angus Deaton's term for humanity's release from its inheritance of poverty, disease, and early death. Life expectancy began to rise, picked up speed in the 20th century, and shows no signs of slowing down. As the economic historian Johan Norberg points out, we tend to think that "we approach death by one year for every year we age, but during the 20th century, the average person approached

death by just seven months for every year they aged." The gift of longevity is spreading to all of humankind, including the world's poorest countries, and at a much faster pace than it did in the rich ones. "Life expectancy in Kenya increased by almost 10 years between 2003 and 2013," Norberg writes. "After having lived, loved, and struggled for a whole decade, the average person in Kenya had not lost a single year of their remaining lifetime. Everyone got 10 years older, yet death had not come a step closer."

As a result, inequality in life expectancy, which increased during the Great Escape when a few fortunate countries broke away from the pack, is shrinking as the rest catch up. In 1800, no country in the world had a life expectancy above 40. By 1950, it had grown to around 60 in Europe and the Americas, leaving Africa and Asia far behind. However, since then, life expectancy in Asia has risen at twice the European rate, and at one and a half times the rate in Africa. An African born today can expect to live as long as a person born in the Americas in 1950 or in Europe in the 1930s. The average would have been longer still were it not for the tragedy of AIDS, which caused many terrible deaths in the 1990s before medicine started to bring it under control.

The African AIDS epidemic is a reminder that progress is not an escalator that constantly improves the well-being of every human everywhere all the time. That would be magic, and progress is an outcome not of magic 35 of problem-solving. Problems are inevitable, and at times particular sectors of humanity have suffered terrible difficulties. In addition to the African AIDS epidemic, longevity 36 into reverse for young adults worldwide during the Spanish flu pandemic of 1918-19. It also decreased for middle-aged, non-college-educated, non-Hispanic white Americans in the early 21st century. However, problems are solvable, and the fact that longevity continues to increase in every other Western demographic means that solutions to the problems facing this specific one exist as well.

Average lifespans are stretched the most by decreases in the infant and child death rate, both because children are weak and because the death of a child brings down the average more than the death of a 60-year-old. In Sweden in the 1800s, between a quarter and a third of all children died before their fifth birthday, and in the 1700s the average death toll was closer to half. This appears to be typical in human history. Even now in the 21st century, a fifth of hunter-gatherer children die in their first year and almost half before they reach adulthood.

<<NOTES*>>

pessimistic = expecting something bad to happen

| 1. | Choose | the answer that is | closest in meanii | ng. | | | | | | |
|----|--|---|---|-------------------------------|-----------|---|------------------------------------|----------------------|--|--|
| | 31 32 33 | <1> urge <2> blessing <3> keep in mind | ① destiny ① wealth ① take into ④ continue | | n | 3 necessity 3 goal 2 memorize 5 remain calm | 4 admiration 4 gift 3 bear with us | ⑤ option ⑤ desire | | |
| 2. | Choose | the most appropria | ate answer. | | | | | | | |
| | 34 35 36 | ① over ① also ① proved | ② out② because② went | 3 up 3 despite 3 brough | | 4 off 4 and 4 decreased | ⑤ away ⑤ but ⑤ revea | | | |
| 3. | Identify | the most stressed | vowel, and choos | se the word that | has the | same vowel pro | nunciation. | | | |
| | 37 | <4> ignorant | | | | | | | | |
| | 1 heat | 2 sit 3 we | t 4 cat 5 bi | rd 6 cut 7 | food (8 | book 9 stop | 10 stay 11 sto | ore ① old | | |
| 4. | 38 | What did the surv | vey in Sweden an | d The Ignorance | e Projec | t discover? | | | | |
| | They revealed that the average lifespan in Sweden was higher than the global average. They showed that most people thought the global average lifespan was less than it actually was. They confirmed that almost all of the respondents were about 71 years old. They implied that the intelligence of chimpanzees was higher than previously believed. They demonstrated that choosing answers randomly was a good way to answer surveys. | | | | | | | | | |
| 5. | Match e | ach line to the plac | ce it corresponds | to in Figure 1. | | | | | | |
| | 39 40 41 42 | Which line corres Which line corres Which line corres Which line corres | ponds to Asia? ponds to Europe? | | | | | | | |
| | 1 | 2 | 000000 | ③ | | 4 | ⑤ — | | | |
| 6. | 43 | Which of the follow | wing is the most | appropriate title | e for the | passage? | | | | |
| | 2 The 3 How 4 Char | ses for decreases in impact of the Great AIDS has affected nges in lifespans a bbal comparison of | at Escape on life of the average leng round the world | expectancy gth of life | | | | | | |
| | | | | | | | | | | |