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## C12T6P3 测试练习

### The Benefits of Being Bilingual

A According to the latest figures \_\_\_\_\_, the majority of the world's population is now bilingual \_\_\_\_\_ or multilingual \_\_\_\_\_, having grown up speaking two or more languages. In the past, such children were considered to be at a disadvantage compared with their monolingual \_\_\_\_\_ peers \_\_\_\_\_. Over the past few decades, however, technological advances have allowed researchers to look more deeply \_\_\_\_\_ at how bilingualism interacts \_\_\_\_\_ with and changes the cognitive \_\_\_\_\_ and neurological systems \_\_\_\_\_, thereby identifying several clear benefits of being bilingual.

B Research shows that when a bilingual person uses one language, the other is active \_\_\_\_\_ at the same time. When we hear a word, we don't hear the entire \_\_\_\_\_ word all at once: the sounds arrive in sequential \_\_\_\_\_ order \_\_\_\_\_. Long before the word is finished, the brain's language system begins to guess what that word might be. If you hear 'can', you will likely activate \_\_\_\_\_ words like 'candy' and 'candle' as well, at least during the earlier stages of word recognition \_\_\_\_\_. For bilingual people, this activation \_\_\_\_\_ is not limited to a single language; auditory \_\_\_\_\_ input activates corresponding \_\_\_\_\_ words regardless of the language to which they belong. Some of the most

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compelling \_\_\_\_\_ evidence for this phenomenon \_\_\_\_\_, called ‘language co-activation’, comes from studying eye movements. A Russian-English bilingual asked to ‘pick up a marker’ from a set of objects \_\_\_\_\_ would look more at a stamp than someone who doesn’t know Russian, because the Russian word for ‘stamp’, marka, sounds like the English word he or she heard, ‘marker’. In cases like this, language co-activation occurs because what the listener hears could map \_\_\_\_\_ onto words in either language.

C Having to deal with this persistent \_\_\_\_\_ linguistic competition can result in difficulties, however. For instance, knowing more than one language can cause speakers to name \_\_\_\_\_ pictures more slowly, and can increase ‘tip-of-the-tongue states \_\_\_\_\_’, when you can almost, but not quite \_\_\_\_\_, bring a word to mind. As a result, the constant \_\_\_\_\_ juggling \_\_\_\_\_ of two languages creates a need to control how much a person accesses a language at any given time. For this reason, bilingual people often perform better on tasks that require conflict management \_\_\_\_\_. In the classic \_\_\_\_\_ Stroop Task, people see a word and are asked to name the colour of the word’s font \_\_\_\_\_. When the colour and the word match (i.e., the word ‘red’ printed in red), people correctly name the colour more quickly than when the colour and the word don’t match (i.e., the word ‘red’ printed in blue). This occurs because the word itself (‘red’) and its font colour (blue) conflict. Bilingual people often

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excel \_\_\_\_\_ at tasks such as this, which tap \_\_\_\_\_ into the ability to ignore competing \_\_\_\_\_ perceptual \_\_\_\_\_ information and focus on the relevant aspects of the input. Bilinguals are also better at switching \_\_\_\_\_ between two tasks; for example, when bilinguals have to switch from categorizing \_\_\_\_\_ objects by colour (red or green) to categorizing them by shape (circle or triangle), they do so more quickly than monolingual people, reflecting better cognitive control when having to make rapid changes of strategy.

D It also seems that the neurological roots of the bilingual advantage extend to \_\_\_\_\_ brain areas more traditionally associated with sensory \_\_\_\_\_ processing. When monolingual and bilingual adolescents \_\_\_\_\_ listen to simple speech sounds without any intervening \_\_\_\_\_ background noise, they show highly similar brain stem \_\_\_\_\_ responses. When researchers play the same sound to both groups in the presence of background noise, however, the bilingual listeners' neural response is considerably larger, reflecting better encoding \_\_\_\_\_ of the sound's fundamental \_\_\_\_\_ frequency \_\_\_\_\_, a feature of sound closely related to pitch \_\_\_\_\_ perception \_\_\_\_\_.

E Such improvements in cognitive and sensory processing may help a bilingual person to process information in the environment, and help explain why bilingual adults acquire a third language better than

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monolingual adult master a second language. This advantage may be rooted in the skill of focusing on information about the new language while reducing interference \_\_\_\_\_ from the languages they already know.

F Research also indicates that bilingual experience may help to keep the cognitive mechanisms sharp by recruiting \_\_\_\_\_ alternate brain networks to compensate for those that become damaged during aging. Older bilinguals enjoy improved memory relative to monolingual people, which can lead to real-world health benefits. In a study of over 200 patients with Alzheimer's disease, a degenerative \_\_\_\_\_ brain disease, bilingual patients reported showing initial \_\_\_\_\_ symptoms \_\_\_\_\_ of the disease an average of five years later than monolingual patients. In a follow-up study, researchers compared the brains of bilingual and monolingual patients matched on the severity \_\_\_\_\_ of Alzheimer's symptoms. Surprisingly, the bilinguals' brains had more physical signs of disease than their monolingual counterparts, even though their outward \_\_\_\_\_ behaviour and abilities were the same. If the brain is an engine, bilingualism may help it to go farther on the same amount of fuel.

G Furthermore, the benefits associated with bilingual experience seem to start very early. In one study, researchers taught seven-month-old babies growing up in monolingual or bilingual homes that when they

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heard a tinkling \_\_\_\_\_ sound, a puppet \_\_\_\_\_ appeared on one side of a screen. Halfway \_\_\_\_\_ through the study, the puppet began appearing on the opposite \_\_\_\_\_ side of the screen. In order to get a reward, the infants \_\_\_\_\_ had to adjust the rule they'd learned; only the bilingual babies were able to successfully learn the new rule. This suggests that for very young children, as well as for older people, navigating \_\_\_\_\_ a multilingual environment imparts \_\_\_\_\_ advantages that transfer far beyond language.

