The World (November 1st-15th, 2023)

1. ***New Scientist* (4th November 2023 Page 9)**

1)Text Completion

The Beatles have released \_\_\_\_\_ is said to be their last ever song, pieced together from recordings spanning more than four decades, in a feat that was possible due to artificial intelligence.

On 2 November, the \_\_\_\_\_\_ (icon )band released Now and Then, a song edited from a recording of the late John Lennon playing piano and singing at home in 1979. Al was used to extract usable sections from that noisy tape. These \_\_\_\_\_\_\_\_\_\_\_\_\_ (combine) with guitar tracks from the late George Harrison, recorded in 1995 when efforts were made to finish the song. \_\_\_\_\_\_\_\_\_\_(report), the endeavour was initially called off due to poor sound quality, \_\_\_ issue solved by Al. Finally, new recordings made earlier this year by Paul McCartney and Ringo Starr were added. McCartney has teased the song in interviews for months and said in a \_\_\_\_\_\_\_\_\_ (state): “There it was, John’s voice, crystal clear. It’s quite emotional. And we all play on it, it’s a genuine Beatles recording”.

Film director Peter Jackson’s production company WingNut Films is credited \_\_\_ “source separation”. When \_\_\_\_\_\_\_ (create) Now and Then, engineers at WingNut worked on 60 hours of recording captured by a single microphone that picked up the musicians’ instruments in a noisy jumble. The microphone also caught background chatter, making much of the recording unusable. The team used Al to separate the dialogue from other noises, also isolating the sound of each instrument \_\_\_\_\_\_\_\_\_\_\_ (play). Jess Aslan at Goldsmiths, University of London, says The Beatles’ track was done with the blessing of the living members of the band, \_\_\_\_ adds that Al also presents risks to artists.

2)Translation

从橄榄中提取的油被用于烹饪。

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该公司的创新尝试蓬勃兴旺。

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1. ***The Week Junior* (11th November 2023 Page 14）**

1)Text Completion

You might have heard the theory that a meteor wiped out most life on Earth, including many dinosaurs, 66 million years ago. \_\_\_\_\_\_\_\_, scientists have come up with a reason why this caused so many species to go extinct.

Previously, scientists had argued that the meteor strike caused wildfires, earthquakes and tsunamis, \_\_\_\_\_\_ destroyed habitats all over the planet and made it impossible for many creatures to survive. However, the new report suggests that more attention should \_\_\_\_\_\_\_\_ (give) to another effect of the meteor-the trillions of tonnes of dust that were sent flying into the atmosphere.

This dust would have swirled around in dark clouds, blocking out the Sun and \_\_\_\_\_\_\_\_ (cause) temperatures around the world to drop \_\_\_\_\_\_\_\_\_\_\_ (dramatic). The researchers devised their theory by running computer simulations of the aftermath of the meteor strike. These simulations took \_\_\_\_ account real measurements of dust caused by the meteor impact, \_\_\_\_\_ (take) from a site in North Dakota, US. The simulations suggested that the dust could have stayed in the atmosphere for up to 15 years after being thrown into the sky. Philippe Claeys, co-author of the new research, said that although the meteor strike was \_\_\_\_\_\_\_\_\_ (disaster) for the dinosaurs, it probably helped humans of the future. “Dinosaurs dominated the Earth and were doing just fine \_\_\_\_\_\_ the meteorite hit,” he said. “\_\_\_\_\_\_\_\_the impact, my guess is that mammals-including us - had little chance to become the dominant organisms on this planet.”

2)Translation

她微笑了，旋动着玻璃杯里的葡萄酒。

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我们想出了一个计划来帮助他。

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1. ***Scientific American* (November 2023 Page 17)**

1)Text Completion

Humans have sailed the oceans’ surfaces for millennia but their depths remain \_\_\_\_\_\_\_\_ (effective) uncharted.Only about a quarter of the seafloor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (map) at high resolution. Maps of most regions display only approximate depths \_\_\_\_\_ often miss entire underwater mountains or canyons.

So a group of researchers has recruited some deep-diving \_\_\_\_\_\_\_\_ (expert): Elephant Seals and Weddell Seals. Scientists have been placing trackers on these blubbery marine mammals around Antarctica for years \_\_\_\_\_\_\_\_\_\_ (gather) data on ocean temperature and salinity. For a new study the researchers compared these dives location and depth data with some of the less detailed seafloor maps. They spotted places \_\_\_\_\_\_\_ the seals dove deeper than should have been possible according to the maps meaning the existing depth estimates were \_\_\_\_\_\_\_\_\_\_ (accurate).

In eastern Antarctica's Vincennes Bay the diving seals \_\_\_\_\_\_ (help) the scientists find a large,hidden underwater canyon plunging to depths of more than a mile. \_\_\_ Australian research ship called the RSV Nuyina later measured the canyon’s exact depth using sonar, and the researchers have proposed naming their find the Mirounga-Nuyina Canyon honoring both the ship and the \_\_\_\_\_\_\_\_\_ (involve) Elephant Seals.

2)Translation

卓越的高分辨率卡通图形。\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

他的体重开始骤然下降。

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1. ***National Geographic* (November 2023 BREAKTHROUGHS)**

1)Text Completion

Some monarchs fly thousands of miles each year from southern Canada all the way to the mountains outside of Mexico City. \_\_\_\_\_ do they do it? A new study says monarchs that make \_\_\_ to the Mexico wintering grounds have white wing spots 3 percent \_\_\_\_\_ (large) than those of monarchs \_\_\_\_\_\_\_\_ (sample) from other parts of the North American migration. This may mean that the black-and-white \_\_\_\_\_\_\_ (pattern) on monarch wings create micro-vortices of warm and cool air that in turn reduce drag while the insects soar in the sun. Three percent may not seem like much—\_\_\_\_ for animals that weigh as little as a kernel of corn and have to fly across a continent, tiny changes could yield real benefits, the scientists say. Similar drag-reduction properties \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (find) in the wing patterns of seabirds and one day could lead \_\_\_ more efficient airborne devices. “If you want to develop drones that are flying for longer time and harnessing energy from sunlight, this is the best thing \_\_\_\_ we can look at,” says study co-author Mostafa Hassanalian, \_\_\_ associate professor of mechanical engineering at New Mexico Tech.

2)Translation

工程师们在设计新飞机时总是在寻找最小化阻力的方法。\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

飞行员的确设法使飞机升空了。

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1. **CNN News 11/04/2023**
2. Dictation

We start today with an \_\_\_\_\_\_ out of Mexico, where residents are dealing with devastating damage caused by Wednesday’s category 5 storm Hurricane Otis. Trees were uprooted, buildings smashed, roadways were \_\_\_\_\_\_\_\_ under several feet of water. Thankfully, Mexican President Andres Manuel Lopez Obrador said there were as of Thursday morning no \_\_\_\_\_\_\_\_ reported. The local power utility says nearly 500,000 homes and businesses lost power though. And communication lines are down, making it hard for authorities and rescue operations to get a handle on the true \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Video we have shows widespread destruction with a big impact to the local \_\_\_\_\_\_\_\_.

Acapulco, located on the southwestern coast of Mexico, was once considered the Pearl of the Pacific in the 1940s and 50s. It was a major American \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for tourists and celebrities alike like Rita Hayworth. But it diminished slowly over time due to \_\_\_\_\_\_\_\_\_\_\_\_ and crime. However, its tourism industry has been on an upswing \_\_\_\_\_\_\_ Mexican and European travelers recently. To protect this city, residents and authorities laid major \_\_\_\_\_\_\_\_\_\_\_ ahead of the storm. But as we mentioned in yesterday’s show, the storm quickly turned \_\_\_\_\_\_, very, very quickly and even caught meteorologists off guard.

2)Translation

公用事业包括煤气、电和电话等。

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收到这份邀请让我颇感意外。

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