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https://www.100test.com/kao_ti2020/283/2021_2022_2007_E5_B9_B4_E8_81_8C_c91_283640.htm 第九篇：Wonder Webs Spider

webs are more than homes, and they are ingenious traps. And the world ' s best web spinner may be the Goldern Orb Weaver spider.

The female Orb Weaver spins a web of fibers thin enough to be invisible to insect pr ê t, yet _____1_____ enough to snare a flying bird without breaking. The secret of the web ' s strength? A type of super-resilient _____2_____ called dragline. When the female spider is ready to _____3_____ the web ' s spokes and frame, she uses her legs to draw the airy thread out through a hollow nozzle in her belly.

Dragline is not sticky, so the spider can race back and forth along _____4_____ to spin the web ' s trademark spiral. Unlike some spiders that weave a new web every day, a Golden Orb Weaver

_____5_____ her handiwork until it falls apart, sometimes not for two years¹. The silky thread is five times stronger than steel by weight and absorbs the force of an impact three times better than Kevlar, a high-strength human-made _____6_____ used in bullet-proof vests.

And thanks to its high tensile strength, or the ability to resist breaking under the pulling force called tension, a single strand can stretch up to 40 percent longer than its original _____7_____ and snap back as well as new. No human-made fiber even comes _____8_____.

It is no _____9_____ manufacturers are clamoring for spider silk. In the consumer pipeline: high-performance fabrics for athletes and stockings that never run². Think parachute cords and suspension

bridge cables. A steady _____10_____ of spider silk would be worth billions of dollars but how to produce it? Harvesting silk on spider farms does not _____11_____ because the territorial arthropods have a tendency to devour their neighbors. Now, scientists at the biotechnology company Nexia are spinning artificial silk modeled after Golden Orb dragline. The _____12_____ step: extract silk-making genes from the spiders. Next, implant the genes into goat egg cells. The nanny goats that grow from the eggs secrete dragline silk proteins in their _____13_____. “ The young goats pass on the silk-making gene without _____14_____ help from us, ” says Nexia president Jeffrey Turner. Nexia is still perfecting the spinning process, but they hope artificial spider silk will soon be snagging customers _____15_____ the real thing snags bugs.

1. A) tough B) soft
C) large D) smooth
2. A) cloth B) silk C) nylon D) wool
3. A) repair B) pull C) move D) weave
4. A) him B) her C) it D) those
5. A) reflexes B) reproduces C) remakes D) reuses
6. A) metal B) mass C) material D) model
7. A) breadth B) length C) height D) strength
8. A) close B) well C) open D) awake
9. A) hurry B) worry C) wonder D) use
10. A) shipment B) supply C) run D) exchange
11. A) run B) go C) deal D) work
12. A) previous B) foremost C) first D) front
13. A) milk B) meat C) lungs D) muscle
14. A) no B) any C) some D) many
15. A) as fast as B) as gently as C) as fully as D) as little as

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