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https://www.100test.com/kao_ti2020/645/2021_2022_2010_E5_B9_B4_E8_81_8C_c91_645855.htm Invisibility Ring Scientists can ' t yet make an invisibility cloak¹ like the one that Harry Potter² uses. But , for the first time , they ' ve constructed a simple cloaking device that makes itself and something placed inside it invisible to microwaves.百考试题论坛 When a person “ sees ” an object , his or her eye senses many different waves of visible light as they bounce off the object. The eye and brain then work together to organize these sensations and reconstruct the object ' s original shape. So , to make an object invisible , scientists have to keep waves from bouncing off it. And they have to make sure the object casts no shadow. Otherwise , the absence of reflected light on one side would give the object away. Invisibility isn ' t possible yet with waves of light that the human eye can see. But it is now possible with microwaves. Like visible light , microwaves are a form of radiant energy. They are part of the electromagnetic spectrum , which also includes radio waves , infrared light , ultraviolet rays , X rays , and gamma rays. The wavelengths of microwaves are shorter than those of radio waves but longer than those of visible light. The scientists ' new “ invisibility device ” is the size of a drink coaster and shaped like a ring. The ring is made of a special material with unusual ability. When microwaves strike the ring , very few bounce off it. Instead , they pass through the ring , which bends the waves all the way around until they reach the opposite side. The waves then return

to their original paths. To a detector set up to receive microwaves on the other side of the ring, it looks as if the waves never changed their paths as if there were no object in the way! So, the ring is effectively invisible. When the researchers put a small copper loop inside the ring, it, too, is nearly invisible. However, the cloaking device and anything inside it do cast a pale shadow. And the device works only for microwaves, not for visible light or any kind of electromagnetic radiation. So, Harry Potter's invisibility cloak doesn't have any real competition yet. 词汇：

invisibility/invɪzəbɪlɪti/n. 看不见，无形 spectrum/spektrəm/n. 光谱
cloak/klɒk/ 斗篷，披风 infrared/ɪnfrəred/adj. 红外线的
microwave/maɪkrəweɪv/n. 微波 ultraviolet ray 紫外线
reconstruct/riːkɒnstrʌkt/v. 重建 gamma ray 伽马射线
radiant/ˈreɪdɪənt/adj. 辐射的 wavelength/ˈweɪvlɛŋθ/n. 波长
electromagnetic/ɪlektromæɡnɪtɪk/adj. 电磁

的coaster/ˈkɔːstə(r)/n. 托盘，垫子 练习：1. Harry Potter is mentioned in the passage, because scientists can now make an invisible cloak of the same kind as he uses. B try to make an invisible cloak of the same kind as he uses. C try to invent a device similar in idea to the invisible cloak he uses. D know that it is possible to make an invisible cloak of the same kind. 2. What is true of microwaves? A Their wavelengths are shorter than those of visible light. B Their wavelengths are longer than those of visible light. C They are different from visible light as they are a kind of radiant energy. D They are visible to the human eye. 3. What is NOT true of the invisibility device? A It is made of a special material with unusual ability.

B Microwaves bounce off it when they strike it. C Microwaves pass through it when they strike it. D It bends the microwaves all the way around until they reach the opposite side. 4. What does the word "coaster" mean in the passage? A A disk or plate placed under a drinking glass to protect a table top. B A vessel engaged in coastal trade. C A roller coaster. D A resident of a coastal area. 5. Harry Potter's invisibility cloak doesn't have any real competition yet, because A scientists have not found out how his cloak works. B the cloaking device is a total failure. C the cloaking device works only for microwaves. D the cloaking device works only for visible light. 答案与题解：百考试题 - 全国最大教育类网站(100test.com) 1. C 文章的第一段告诉我们，科学家还没有发明哈利波特使用的那种隐身衣，所以不能选 A. 该段还告诉我们，科学家已制造了一种装置，这种装置能使自身或置于其中的物体不被微波发现，所以 C 是正确选择，也就是说，科学家发明的隐形装置和哈利波特的隐身衣仅仅在概念上相同，这同时说明 B 和 D 是错误的选择。 2. B 第三段最后一句中告诉我们，A 是错误选择，B 是正确选择。该段第三句说，微波与可见光一样都是一种辐射能，所以 C 的说法是错误的，不能选择。根据该段第一句：with waves of light that the human eye can see 和第三句：Like visible light，可以得知 D 是错误的说法，也不能选择。 3. B 第四段第三句说，当微波到达装置表面时，very few bounce off。very few 是几乎没有的意思，所以选择 B。其他选择所述内容都可以很容易在该段中找到。 4. A 第四段第一句告诉我们，科学家的这个隐形装置和一个杯垫差不多大小，所以 A 是正确选择。coaster 是一个多义词，其他几个选择是该词的其他

意思，B：从事沿海贸易的船.C：过山车，摩天轮.D：海岸地区居民。5.CA句在短文中没有提到.按文章的内容B不是正确的说法.文章最后一段说，And the device works only for microwaves，not for visible light，所以C是正确选择 编辑推荐：为帮助广大学员有效备考，我们特推出了职称英语2010年网络辅导课程,相信会让大家有耳目一新的视听感受。2009年职称英语通过率近100%，为答谢数十万用户厚爱，百考试题环球网校 100Test 下载频道开通，各类考试题目直接下载。详细请访问 www.100test.com