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https://www.100test.com/kao_ti2020/622/2021_2022_2010_E5_B9_ B4_E8_81_8C_c91_622187.htm Listening Device Provides Landslide Early Warning A device that provides early warning of a landslide by monitoring vibrations in soil is being tested by UK researchers. Tile device could save thousands of lives each year by warning when an area should be evacuated , the scientists say. Such natural disasters are common in countries that experience sudden

, heavy rainfall, and can also be triggered by earthquakes and even water erosion. Landslides start when a few particles of soil or rock within a slope start to move, but the early stages can be hard to spot. Following this initial movement, "slopes can become. unstable in a matter of hours or minutes, " says Nell Dixon at Loughborough University1,UK.He says a warning system that monitors this movement " might be enough to evacuate a block of fiats or clear a road, and save lives. " The most common way to monitor a slope for signs of an imminent landslide is to watch for changes in its shape. Surveyors can do this by measuring a site directly, or sensors sunk into boreholes or fixed above ground can be used to monitor the shape of a slope. Slopes can, however, change shape without triggering a landslide, so either method is prone to causing false alarms. Now Dixon's team has developed a device that listens for the vibrations caused when particles begin moving within a slope. The device takes the form of a steel pipe 0 dropped into a boreh01e in a slope. The borehole is filled in with gravel around the pipe to help

transmit high-frequency vibrations generated by particles within the slope.These vibrations pass up the tube and are picked up by a sensor on the surface.Software analyses the vibration signal to determine whether a landslide may be imminent. The device is currently being tested in a 6-metre-tall artificial clay embankment in Newcastle2

, UK.Early results suggest it should provide fewer false positives than existing systems. Once it has been carefully and thoroughly tested, the device could be used to create a complete early-warning system for dangerous slopes. " Locations with a significant risk of landslides could definitely benefit from a machine like this, " says Adam Poulter, an expert at the British Red Cross. "As long as it doesn't cost too much." But, Poulter adds that an early-warning system may not be enough on its own. " You need to have the human communication, " he says. " Making systems that get warnings to those who need them can be difficult. " 词汇: landslide/5IAndslaId/n.山崩.地滑.塌方 imminent/5iminEnt/adj.即 将发生的 vibration/vai5breiFEn/n.振动 sensor/5sensE(r)/ n.传感 器 evacuate/i5vAkjueit/v. 疏散, 撒走 borehole/5bC:hEul/n. 钻孔 , 井眼 rainfall/5reinfC:I /n.降雨,降雨量 gravel/5^rAvEl/n.砾, 沙砾,砾石 erosion/i5rEuVEn/n.腐蚀,侵蚀 embankment/Im5bANkmEnt/n.堤岸注释: 1. Loughborough

University:拉夫堡大学。该大学地处英格兰东部的拉夫堡市,始建于1909年的拉夫堡学院,1966年获得皇家特许正式成为综合大学。2. Newcastle:纽卡斯尔。英格兰东北部的一个自治区,位于利兹(Leeds)以北泰纳(the Tync River)河畔。练习:1. What does "Such natural disasters" in the first paragraph

refer to? A Sudden , heavy rainfall. B Earthquakes. C Water erosion. D Landslides. 2. Which of the following statements is true of landslides? A The initial movement is hard to spot. B They start with a movement of a few particles of soil or rock. C They can be destructive in a matter of hours or minutes. D All of the above. 3. Why do researchers develop a new device to monitor signs of landsides? A Because the new device can measure the site directly. B Because the new device can be sunk into boreholes or fixed above ground. C Because the common methods can cause false alarms. D Because the common methods are useless. 4. Which of the following statements is NOT true of the device , according 10 Paragraph4? A It is filled in with gravel. B It consists of a steel pipe. C It is 0dropped into a horehole filled in with gravel. D It is connected to a sensor on the surface. 5. According to the context , what does the word

"positives" in the fifth paragraph mean? A Positive electric charges. B Evidences. C Warnings. D Predictions. 答案与题解: 1. D 短文第一段的第一句告诉我们,英国研究人员正在测试一 种仪器,这种仪器可以通过监测土壤的振动来预警山崩。该 段最后一句说,这种灾难经常在一些遭受自然灾害的国家发 生,这些自然灾害包括sudden,heavy rainfall和earthquakes以 及water erosion。所以D是正确选择。2. D A、B、C的内容都 可在第二段中找到。所以D是正确答案。3. C 第三段的第一 和第二句告诉我们,最为普通的监测山崩方法是对山坡形状 变化的观察,有两种观察方式.第三句说,因为山坡形状的变 化不一定导致山崩,所以两种方法都会有虚假的预警。因此 ,C是正确答案。4. A B、C、D所述内容都可在第四段中找 到。The borehole is filled in with gravel around the pipe.在被凿出 的洞里填充沙砾,围在钢管四周。不是在钢管里填充沙砾。 所以A是错误的说法,是正确的选择。5.B positives在此用作 名词,意思是:被证实的因素或特点,可以理解为证据。相 关推荐:把职称英语页面加入收藏 2009年职称英语考试成绩 查询汇总 2009年职称英语考试试题及答案点评专题 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。现在报 名职称英语辅导,赠送2009年精品课程及考试E币。点击查看 详情》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