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Electdc Backpack Backpacks are convenient . They can hold your books , your lunch , and a change of clothes , leaving your hands free to do other things . Someday , if you don , t mind carrying a heavy load , your backpacks might also power your MP3 1player , keep your cell phone running , and maybe even light your way home . Lawrence C . Rome and his colleagues from the University of Pennsylvania in Philadelphia<sup>2</sup> and the Marine Biological Laboratory in Woods Hole<sup>3</sup> , Mass . 4 , have invented a backpack that makes electricity from energy produced while its wearer walks . In military actions . searchandrescue operations , and scientific field studies , people rely increasingly on cell phones , global positioning system(GPS)<sup>5</sup> receivers , nightvision goggles , and other batterypowered devices to get around and do their work . The backpack , s electricitygenerating feature could dramatically reduce the amount of a wearer , s load now devoted to spare batteries , report Rome and his colleagues in the Sept . 9 Science<sup>6</sup> . The backpack , s electricitycreating powers depend on springs used to hang a cloth pack from its metal frame . The frame sits against the wearer , s back , and the whole pack moves up and down as the person walks . A gear meehanism converts vertical movements of the pack to rotary motions of an electrieal generator , producing up to 7 . 4 watts . Unexpectedly , tests showed that wearers of the new backpack alter

their gaits in response to the pack ' s oscillations , so that they carry loads more comfortably and with less effort than they do ordinary backpacks . Because of that surprising advantage , Rome plans to commercialize both electric and non-electric versions of the backpack . The backpack could be especially useful for soldiers , scientists , mountaineers , and emergency workers who typically carry heavy backpacks . For the rest of HS , power-generating backpacks could make it possible to walk , play video games , watch TV , and listen to music , all at the same time . Electricity-generating packs aren ' t on the market yet , but if you do get one eventually , just make sure to look both ways before crossing the street! 1 . Backpacks are

convenient because A . they can be very large B . they can hold as many things as you want to carry . C . your hands are freed to do other things . [把职称英语页面加入收藏](#) D . you do not have to carry things with you . 2 . What is the most important feature of the backpack invented by Lawrence C . Rome and his colleagues? A . It produces electricity for electronic devices while the wearer walks . B . It can be used as cell phones , GPS in the military actions or field studies . C . It is small and convenient . D . It is light and easy to carry . 3 . The word " springs " in Paragraph 3 means A . a small stream of water flowing naturally from the earth . B . the season of the year , occurring between winter and summer . C . the act or an instance of jumping or leaping . D . a length of metal wound around , which returns to its original shape after being pushed . 4 . According to Paragraph 4 , what does Rome plan to do? A . To make the backpack more comfortable for the wearer . B

. To put the backpack on the market . C . To test the advantage of the backpack . D . To promote the backpack in a newspaper or on television . 5 . What is implied in “ if you do get one eventually , just make sure to look both ways before crossing the street! ” A . You will be too excited to watch the traffic . B . Enjoying electronic devices while walking may invite traffic accidents . C . It is not possible for you to get such a backpack . D . It is wise of you to have such a backpack . 1 . C2 . A3 . D4 . B5 . B 相关推荐 : 09年3月职称英语考生考前互送祝福 2009年职称外语等级考试大纲不变 2009年全国职称英语考试复习冲刺 2009年职称英语教材新增内容汇总 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](http://www.100test.com)