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ElectricBackpack 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 dont mind carrying a heavy load , your backpacks might also power your MP3 player , keep your cell phone running , and maybe even light your way home. Lawrence C. Rome and his colleagues from the University of Pennsylvania in Philadelphia² and the Marine Biological Laboratory in Woods Hole³ , Mass.⁴ , have invented a backpack that makes electricity from energy produced while its wearer walks. In military actions

, search-and-rescue operations , and scientific field studies , people rely increasingly on cellphones , global positioning system (GPS) receivers , night-vision goggles , and other battery powered devices to get around and do their work. The backpack

' s electricity- generating 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 Science⁶. The backpack ' s electricity-creating 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 mechanism converts vertical movements of the pack to rotary motions of an electrical generator , producing up to 7.4 watts. Unexpectedly , tests showed that wearers of the new backpack alter

their gaits in response to the pack ' soscillations , so that they carry loads more comfortably and with less effortthan 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 carryheavy backpacks. For the rest of us , 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!

词汇: backpack/5bAkpAk/n.背包 watt/wCt /n.瓦(特)

receiver/ri5si:vE(r)/n.接收机 gait/eit/n.步态 , 步法

night-visiongoggle 夜视镜 oscillation/7Csi5leiFEn/n.摆动

spring/spriN /n.弹簧 commercialize/kE5mE:FEIaiz/v.商业化

vertical/5vE:tikEI /adj.垂直的 mountaineer/7maunti5niE(r)/n.登山

运动员 rotary/5rEutEri /adj.旋转的 练习 : 1. Backpacks are

convenient because A they can be verylarge. B they can hold as many things as you want to carry. C your handsare freed to do other

things. D you do not have to carry things withyou. 2. What is the most important feature of the backpack invented byLawrence

C.Rome and his colleagues? A It produces electricity forelectronic devices while the wearer walks. B It can be used as cellphones , GPS

in the military actions or field studies. C It is small andconvenient. D

It is light and easy to carry. 3. The word "springs" inParagraph 3

means A a small stream of water flowing naturally from theearth. 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.

答案与题解：来源：考试大 1.C 第一段告诉我们，因为背包可以装许多东西，所以可以将双手解放出来做其他事情：to free your hands to do other things。 2.A 第二段的第一句说

，Lawrence C.Rome及其同事们发明的这种背包，当背着背包走路时，会有电能产生。该段最后一句告诉我们，背包的这种性能可减少背包的重量，因为不必携带备用电池。 3.D

“ springs”在此是弹簧的意思。spring是一个多义词：泉水(A)、春天(B)、弹跳(C)。 4.B 第四段最后一句的意思是：Rome计划将这种背包商业化，即推向市场。A、C、D在文中均未提到。D的意思是为背包做广告。 5.B 这个句子的字面意思是：如果你终于得到这样的背包，过马路时一定要两面都看看。也就是说，不要因为同时玩着游戏，听着音乐、看着电视，太专注以致不注意来往车辆了 相关推荐：2010年职称英语考试复习必经的三个阶段 2010年职称英语考试通关做题技巧

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