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Electric 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 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 Philadelphia<sup>2</sup> and the Marine Biological Laboratory in Woods Hole<sup>3</sup>, Mass. <sup>4</sup>, 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 cell phones, global positioning system (GPS)<sup>5</sup> receivers, night-vision goggles, and other battery-powered devices to get around and do their work. The backpacks electricity-generating feature could dramatically reduce the amount of a wearers load now devoted to spare batteries, report Rome and his colleagues in the Sept. 9 Science<sup>6</sup>. The backpacks electricity-crew, ring 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.来源：考试大的美女编辑们 Unexpectedly, tests showed that wearers of the new backpack alter

their gaits in response to the packs 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 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!

41. 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.
- D you do not have to carry things with you.

42. 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.

43. 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.

44. 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

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To test the advantage of the backpack. D To promote the backpack in a newspaper or on television. 45. 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. 相关推荐: 2010年职称英语理工类词汇重点难点 2010职称英语理工B词汇选项考点精华 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)