

## THE BEST 10

### National Institute of Technology, Matsue College

A: Disasters can happen suddenly in our daily lives. Many people have died in Japan due to disasters. Heavy rains fell in July and August 2021, causing great damage to Shimane Prefecture. In recent years, it has become difficult to predict the weather because of global warming. Disasters afflict and confuse people. What would you do if a terrible disaster happened right now this minute? We may have some advice for you!

B: Hello everyone! I'm Sawa Teshima. I'm studying electrical engineering and computer science.

A: I'm Yui Endo. I'm studying control engineering.

C: I'm Manami Iino. I'm studying civil engineering. Let's think about disaster prevention today. Have you ever had a family discussion about evacuation in the event of a disaster?

A: Yes, I have talked about that with my family. And we have prepared a disaster prevention backpack to carry with us. Then, we noticed one big problem. That's my elderly grandfather. He lives with us, but during the daytime he is alone at home. I think it is difficult for him to evacuate with that heavy disaster prevention backpack. There is no good solution ... what should I do?

B: I see. This vest "THE BEST 10" is recommended for you!

A: What is "THE BEST 10"?

C: It is a disaster prevention vest with 10 functions. I will introduce them one by one. Please try it on. The first is a handheld light. It is safe even when there is a power outage. The second is the whistle. You can notify the people around you in the event of distress. The third is emergency food. Biscuits and canned foods are the mainstream. Recently, some rice can be made just by adding water. The fourth is the radio. It is necessary to obtain information in the event of a disaster. You can get information without the internet.

B: The fifth is a folding slipper. You can prevent injuries when the glass breaks. The sixth is a portable toilet. It helps when you can't use the toilet. The seventh is an aluminum sleeping bag. It supports us when living in evacuation shelters with large temperature differences. The eighth is an air mat. Combined with the aluminum sleeping bag, it will be more comfortable. The ninth is a dry cell type mobile battery. It can also be used during a power outage. The tenth is a retractable mask. It is stored in the collar and can be easily taken out.

A: With this vest, life in a shelter is safe. Usual evacuation goods are kept in a backpack, but why a vest?

B: The vest has a well-balanced center of gravity distributed in the front and back, and the load on the shoulders is small.

A: The best is easier to move than the backpack.

B: That's right. And this is the main characteristics of the vest. First, it is an evacuation product that meets the needs of the elderly. Second, it is light, and you can take it out immediately in the event of a disaster. If you hang it on a hunger near the entrance of your house, you can immediately put in on and evacuate.

A: By the way, there is no water in the 10 goods. You need water, right?

C: Certainly, water is important. However, it is difficult to bring heavy water, especially for the elderly. Moreover, water is stockpiled in most shelters.

A: I see! You don't have to bring water.

B: Third, we can take measures against COVID-19.

A: There is a mask, right?

B: Of course, masks are also one of the infection control measures.

A: Is there anything else?

C: Yes. In fact, you can take measures against infection with a dry cell type mobile battery. Please look at this photo. People are crowding together, aren't they? They are all gathering at the outlets to charge their mobile phones.

A: Ah, I never thought about that.

B: Shimane Prefecture, where we live, has the third highest aging rate in Japan. In addition, the aggravation rate of COVID-19 is also high in the elderly. For the above reasons, we have proposed a disaster prevention vest that can be used especially by the elderly.

A: It is a best that specializes in adapting to various regional characteristics!

C: Yes! In addition, we conducted a hearing survey. We visited elderly people in the neighborhood and facilities designated as evacuation shelters. The opinion received from the elderly was that they would like to include toothbrushes, hats, ID cards, etc. in addition to the 10 goods. Then, we realized that different people need different things.

B: The opinion received from the evacuation center was that they had the minimum necessary items such as water, emergency food, and toilets in stock. Based on the above results, we selected 10 items that make life in the shelter more comfortable. It also has 3 more pockets so you can put in whatever you need and customize it.

A: It's the disaster prevention vest "THE BEST 10" with lots of engineering design! Today we delivered to you "THE BEST 10" that we have designed.

A: Disasters happen suddenly in our daily lives. It is difficult to predict the weather because of global warming. But we must survive. And we want to save our family and friends from sadness and misfortune.

C: We would like to give everybody here "THE BEST 10" but we are not sure yet when our "THE BEST 10" will be commercialized. We will continue to make improvements to make "THE BEST 10" even better!

C: We hope /

B: this presentation will give you an opportunity /

A: to think about disaster prevention.

ABC: Thank you.