

Question 1 The following are some background information and questions concerning the Satsunai River in Hokkaido.

【About the Satsunai River】

The Satsunai River runs through the Tokachi area in eastern Hokkaido. Surveys conducted by the Construction Ministry rated the river as Japan's clearest stream for three consecutive years, guaranteeing its high water quality. In addition, in the basin of the river inhabits rare wildlife including Ezo Squirrel, Asiatic Pika, Ezo Salamander, Char and Kesho Willow.

【Map and Photo of the Satsunai River】



【Ezo Squirrel】



【Char】



However, if the river is left as it is now without any protective measures, the following problems are expected to arise.

- Around the Satsunai River spreads one of Japan's major crop-growing and dairy farming areas. In addition there lies Obihiro City, center of the Tokachi Plain. Thus there is a fear of the water pollution and water quality deterioration caused by domestic and industrial sewage.
- It is expected that the completion of the dam and improvement of the roads will invite an increasing number of visitors from all over Japan to the country's clearest stream. As a result, it is feared that the amount of trash dumped there will increase and spoil the beauty of the river beach where Kesho Willow trees grow gregariously and the natural woods and forests.
- There is a possibility that in ten years the river will lose the position as Japan's clearest stream, and Ezo Salamanders and Char inhabiting there will become extinct.



【Questions】

Read the following accounts and answer the questions. All the questions are based on the assumption.

- (1) Suppose that an additional tax is imposed on all the households in Japan in the next five years to protect the water quality of the Satsunai River and the beauty of the river basin. If the people's consent is obtained, the taxation will start and the cleaning up of water flowing into the river and regular collection of trash will begin. This makes it possible to maintain the present level of the water quality and to preserve the natural beauty of the basin throughout the next 20 years. These measures, taking into consideration the ecosystem of the area, will not affect adversely the rare wildlife.

(4) Did you fill in the amount in the space marked with ※ in the previous page?

1. Yes, I did.

2. No, I didn't.

This confirms your intention to pay tax. Do you have a real intention to pay the amount you indicated?

- 1. I will pay for sure.
- 2. Probably I will pay.
- 3. I am not sure.
- 4. Probably I will not pay.
- 5. I will not pay.

To Question 2 in the next page

To the next question

(5) How dose the amount of tax you agree on change under the following circumstances? Check one item compared with the amount you indicated in the previous page.

①The people living around the river offered an enough amount of donation to conserve the river and the natural beauty of the area.

- 1. I don't want to pay.
- 2. I will pay if the amount is lower.
- 3. I will pay the same amount.
- 4. I can pay the higher amount.

②A sufficient amount of revenue source for the measure was produced due to the Government's efficient administration.

- 1. I don't want to pay.
- 2. I will pay if the amount is lower.
- 3. I will pay the same amount.
- 4. I can pay the higher amount.

③All of your neighbors and colleagues are saying that they will pay a higher amount of tax than yours.

- 1. I don't want to pay.
- 2. I will pay if the amount is lower.
- 3. I will pay the same amount.
- 4. I can pay the higher amount.

④Your name, as contributor to the environmental protection of the river, is inscribed on a monument at the bank of the river.

- 1. I don't want to pay.
- 2. I will pay if the amount is lower.
- 3. I will pay the same amount.
- 4. I can pay the higher amount.

⑤The Satsunai River environmental protection project is carried out by only the companies concerned in the Tokachi area, which doesn't lead to an increase in your income.

- 1. I don't want to pay.
- 2. I will pay if the amount is lower.
- 3. I will pay the same amount.
- 4. I can pay the higher amount.

Question 2 The following are some background information and questions concerning global warming.

(Answer the questions on condition that there isn't donation for the protection of the Satsunai River in Question 1.)

【About global warming】

We produce a large amount of carbon dioxide in our everyday life. It is predicted that, without any immediate measures, the average temperature on earth will rise 2°C within the next 100 years. As a result, the following problems are expected to come up.

By 2030 or so:

- Agricultural produce will start to decline, particularly in developing countries.
- The world's climatic change will become intense and there will be a growing danger of drought and flood in various parts of the world.
- Plants will not be able to adjust to a rapid climatic change, with the result that there will be a great change in ecosystem of plants and animals worldwide.

By 2100 or so:

- Agricultural produce will have been affected enormously in developing countries. For example India's farm products will decline 20% to 50% from the present level.
- The movement of global ocean currents will change significantly and there will be a danger of abnormal weather on a global scale. There will be, for instance, a temporary cooling of the Northern Hemisphere including Japan. Probability of this happening by 2100 is predicted as 5%.
- 30% of the world's forests will disappear due to a sudden climatic change, causing a danger that many species of animals and plants will die out.
- The sea level will rise about 50cm and the phenomenon will have a great impact on the low-lying areas in coastal regions, causing great damage to human life and property.

However, studies show that if we can curb the global temperature rise from predicted 2°C within the next 100 years to 1.5°C by taking the effective measures, we can make the problems less serious as follows:

- It will become possible to reduce an impact on agricultural produce in developing countries. We can minimize a decline in farm products in India within 50%.
- A danger of a change in the global ocean currents will disappear, and consequently the possibility of a worldwide climatic change will be reduced.
- The world's forests can adjust to a temperature rise, and thus it will be possible to minimize the influence on fauna and flora.
- A risk of high wave and other damages caused by a rise in sea level can be reduced.

Therefore industrialized countries including Japan need to reduce carbon dioxide emissions 5% or more by 2010 and also 5% in the following 10 years. In addition developing countries are also required to cooperate in reducing the emissions at the same rate after 2030. Japan is going to take the following steps, led by the Government.

- Further save-energy and recycling.
- Switch into alternative energy source which produces less carbon dioxide such as natural gas, solar heat and so on.

【Questions】

Answer the following questions. All the questions are based on the assumption.

Suppose that expenses for the protective measures are covered by a tax increase. Since the measures are carried out efficiently, an impact of the tax increase on Japanese economy is expected to be small.

- (1) What is the maximum amount of additional tax per year your household can pay? This tax will last for at least 30 years, so note that this means a decrease in money you can spend during the years. Answer on condition that there isn't donation in Question 1.

I don't pay.	500 yen	1,000 yen	2,000 yen	3,000 yen
5,000 yen	7,000 yen	10,000 yen	15,000 yen	20,000 yen
30,000 yen	50,000 yen	100,000 yen	150,000 yen	200,000 yen
(In the case of over 200,000 yen, fill in the amount: yen)				

Choose one item.

- (2) If you check "I don't pay" in the above question, choose one of the following reasons.

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|--|
| 1. There is no need to prevent global warming. |
| 2. Our generation doesn't need to carry out measures to prevent global warming. |
| 3. Measures to prevent global warming are necessary, but I am against a tax increase. |
| 4. I don't agree on the status and the measures against global warming mentioned in the previous page. |
| 5. I don't understand well what is explained in the previous page. |
| 6. Others (Details:) |

- (3) Under the following settings, how much will your household pay? Check one item compared with the amount you chose in the above question.

① If donation is collected from the people instead of tax, how much will you pay?

- | | |
|--------------------------------|---------------------------------------|
| 1. I don't want to pay at all. | 2. I will pay if the amount is lower. |
| 3. I will pay the same amount. | 4. I can pay the higher amount. |

② Suppose the possibility of worldwide abnormal climate will increase from 5% to 10% due to a change in the ocean currents on earth if any measures are not taken. In such case, how much tax will you pay?

- | | |
|--------------------------------|---------------------------------------|
| 1. I don't want to pay at all. | 2. I will pay if the amount is lower. |
| 3. I will pay the same amount. | 4. I can pay the higher amount. |

Question 3 The following are some questions concerning your personal information. Since these questions are necessary for an accurate survey, we would like to ask for your cooperation.

(1) Your sex

Male	Female
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(2) Your age bracket

20s	30s	40s	50s	60s and over
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(3) Your occupation

Agriculture	Forestry	Fishery	Manufacturing
Transportation and communications	Wholesale and retail		
Finance and real estate	Construction	Tourism	Service
Government worker	Housewife	No occupation	
Others()			

(4) The number of your household including you

Total:	about
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(5) How much is your annual income including tax and social welfare?
Check one item. (Unit: yen)

3 million and below	between 3 and 4 million
between 4 and 5 million	between 5 and 6 million
between 6 and 8 million	between 8 and 10 million
between 10 and 14 million	between 14 and 18 million
between 18 and 25 million	25 million and over

(6) What is your relation to the Satsunai River? Check all the items that apply to you.

1. I have heard of the river.
2. I have visited the river.
3. I have visited the Tokachi area where lies Obihiro City and Ikeda Town.
4. Relatives, friends or acquaintances of mine live in the Tokachi area.
5. I used to live in the Tokachi area.

(7) Did you do the following activities in the past year? Check all the items that apply to you. Fill in the number of times, too.

- | |
|---|
| 1. Visiting rivers for pleasure or exercise (about times per month) |
| 2. Visiting rivers for fishing or observation of wildlife (about times per month) |
| 3. Visiting rivers for other reasons
(Details: _____) (about _____ times per month) |
| 4. Visiting clear rivers during travelling or homecoming (about times <u>per year</u>) |

(8) Did your household make the following sorts of payments in the last year? If so, write down the amount. In the case of contribution in kind, fill in the approximate value.

① Donation on your free will for your community such as local government, neighborhood association, community festival and so on.

Total: _____	about _____
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② Donation on your free will related to your job or your children's school

Total: _____	about _____
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③ Donation on your free will to charities such as the Red Feather Campaign, welfare institution and so on

Total: _____	about _____
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④ Other donations on your free will

Details (_____)
Total: about _____ yen

(9) Did you participate in the following sorts of activities without pay in the last year?

① Activities for environmental protection

1. Yes (about _____ days per year)	2. No
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② Community activities such as work at neighborhood association, fire-fighting team and so on

1. Yes (about _____ days per year)	2. No
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③ Occupation-related activities such as work for local store association, company, agricultural cooperative association, fisherman's association and so on or activities related to your children's school including PTA

1. Yes (about _____ days per year)	2. No
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④ Activities for charitable organization such as work at welfare organization and others

1. Yes (about _____ days per year)	2. No
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This is the end of the questionnaire. We highly appreciate your cooperation.