

4. Figure 4.1, shows a habitat.



Figure 4.1

(a) What is the **second user** in the habitat in Figure 4.1?

[ 1 mark ]

(b) Based on a habitat in Figure 4.1, construct **one** food chain.

[ 1 mark ]

(c) Construct a food web based on the Figure 4.1

[ 1 mark ]

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(d) Figure 4.2 shows a food chain in oil palm plantation.

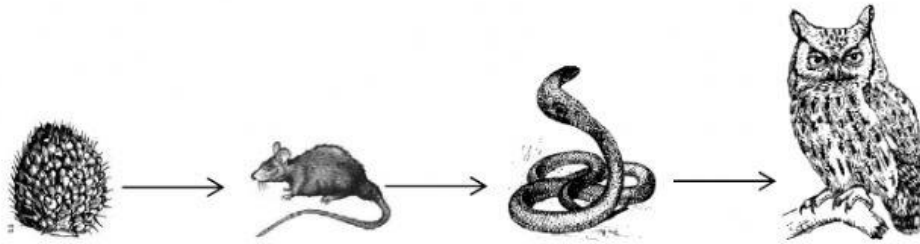


Figure 4.2

A farmer had killed all the rats by using poison. What will be happen to the number of snakes? Give reasons.

Number of snakes : \_\_\_\_\_

Reason : \_\_\_\_\_

\_\_\_\_\_

[ 2 marks ]

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5. Figure 5.1 shows the sources of energy.

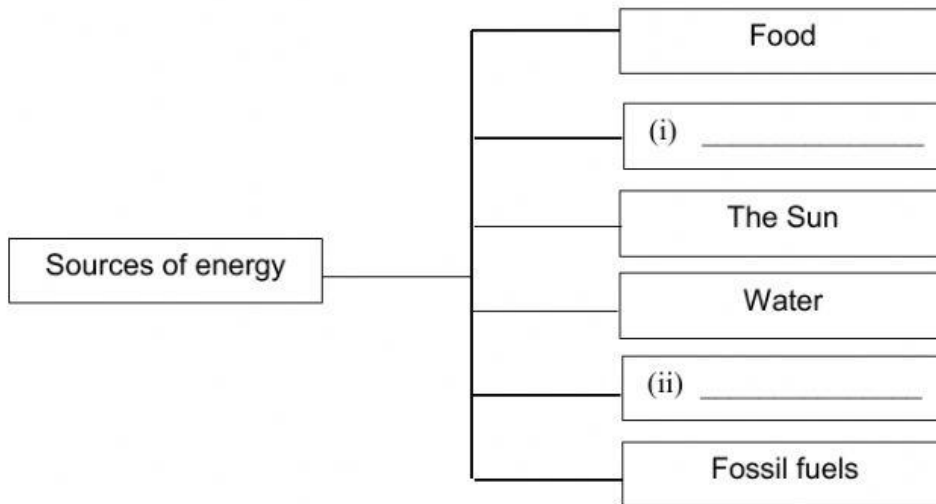


Figure 5.1

(a) Complete Figure 5.1 with another **two** type of sources of energy.

[ 2 marks]

(b) What is energy?

\_\_\_\_\_

\_\_\_\_\_

[ 1 mark]

(c) State the importance of energy to the living things.

\_\_\_\_\_

\_\_\_\_\_

[ 1 mark ]

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6. There are various sources of renewable energy and non-renewable energy.

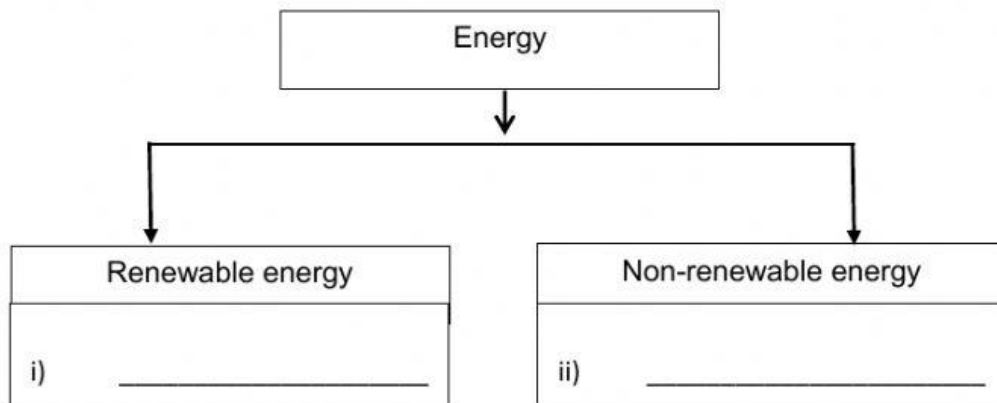


Figure 6.1

(a) State examples of energy in 6 (i) and 6 (ii) in Figure 6.1 above.

[ 2 marks]

(b) Why renewable energy source is better than non-renewable energy?

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[ 1 mark]

(c) State the sources of energy that do not pollute the environment.

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[ 1 mark]

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- (d) Energy can be changed from one form to another. State the energy changes in the following electrical equipment.



i.

\_\_\_\_\_ [ 1 mark]



ii.

\_\_\_\_\_ [ 1 mark]

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7. Table 2 shows the result obtained from an investigation by a group of students.

| Animals | The number of eggs produced at one time |
|---------|-----------------------------------------|
| R       | 6-10                                    |
| S       | 200 - 300                               |

Table 2

(a) What is observation can be made in this investigation?

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[ 1 mark ]

(b) Give **a** reason (inference) about the difference between the number of eggs produced by animal R and animal S.

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[ 1 mark ]

(c) State **two** information in this investigation.

- i. 

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- ii. 

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- [ 2 marks ]

(d) What is animal R?

Animal R : 

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[ 1 mark ]

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8. Table 3 shows the amount of petroleum from oil wells over the three years.

| Year | Production of petroleum<br>(in thousands of barrels per year) |
|------|---------------------------------------------------------------|
| 2010 | 400                                                           |
| 2012 | 350                                                           |
| 2014 | 300                                                           |

Table 3

(a) What is the **trend** in production of petroleum (in thousands of barrels per year)?

\_\_\_\_\_ [ 1 mark ]

(b) Predict the production of petroleum in year 2016.

\_\_\_\_\_ [ 1 mark ]

(c) What is the relationship (*hypotheses*) between the number of year and production of petroleum in this investigation?

\_\_\_\_\_  
\_\_\_\_\_ [ 1 mark ]

(d) State the constant variable (*What to keep same*) in this investigation.

\_\_\_\_\_ [ 1 mark ]

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- (e) Based on Table 3, create a bar chart to show the relationship between the number of year and production of petroleum.



[ 2 mark ]

**END OF QUESTIONS**

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