

Activity 4.3

Title: Multiple Choice Questions

Learning outcome: Recap of main notions learned in Lecture 1 <u>Applicable:</u> it can be used in the first lecture of the Systems Thinking module <u>Green skills:</u> discussion, collaborative planning, co-creation, systems thinking <u>Instructions:</u> Answer the following questions:

1. Two variables are connected as shown in the figure



If variable A decreases, what will happen to variable B?

- a) It will also decrease
- b) It will increase
- c) It will remain constant
- 2. Two variables are connected as shown in the figure



If variable A decreases, what will happen to variable B?

- a) It will also decrease
- b) It will increase
- c) It will remain constant



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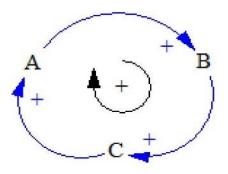
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3. Two variables are connected as shown in the figure



If variable A increases, what will happen to variable B?

- a) It will decrease
- b) It will increase
- c) It will remain constant
- d) It will decrease after some time t
- 4. Three variables named A, B, and C form a feedback loop like the one shown in the figure below



How is such a feedback loop called?

- a) Positive feedback loop
- b) Negative feedback loop
- c) None of the above
- 5. In the figure above, if starting from variable A, we increase A, what will be the <u>ultimate</u> result of the loop?
- a) Variable B will decrease
- b) Variable C will increase
- c) Variable A will get a further increase
- d) None of the above



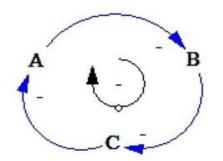
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6. Three variables named A, B, and C form a feedback loop like the one shown in the figure below



How is such a feedback loop called?

- a) Positive feedback loop
- b) Negative feedback loop
- c) None of the above
- 7. In the figure above, if starting from variable A, we increase A, what will be the <u>ultimate</u> result of the loop?
- a) Variable B will decrease
- b) Variable C will increase
- c) Variable A decrease, maybe even canceling the initial increase
- d) None of the above



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