

## 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



Co-funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the National Agency (NA). Neither the European Union nor NA can be held responsible for them.



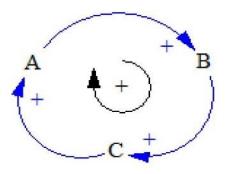
SDG LABS – Harnessing the potential of the Social Economy towards a green transformation through the establishment of Socially Driven Green Labs within Universities Project No. 2021-1-PL01-KA220-HED-000032077

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



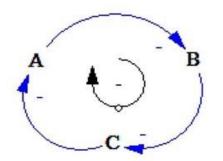
Co-funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the National Agency (NA). Neither the European Union nor NA can be held responsible for them.



SDG LABS – Harnessing the potential of the Social Economy towards a green transformation through the establishment of Socially Driven Green Labs within Universities Project No. 2021-1-PL01-KA220-HED-000032077

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



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the National Agency (NA). Neither the European Union nor NA can be held responsible for them.