**QUIZ**

**MODULE 3: SUSTAINABLE EDUCATION AND ENVIRONMENTAL AWARENESS**

**Session 9: Sustainable development in the community**

**Lesson 2: Sustainable cities**

**1.** **Which of these targets is directly related to Sustainable Development Goal 11 (SDG 11)?)?**

1. Promoting the exclusive use of electric cars in rural areas.
2. Replacing fossil fuels with nuclear energy in industrial zones.
3. Improving urban transport systems and reducing the environmental impact of cities.
4. Expanding commercial and industrial areas on urban peripheries.

**2.** **What are the three pillars of urban sustainability?**

1. Social, economic and environmental.
2. Social, ecologic and technological.
3. Environmental, technological and economic.
4. Polítical, economic and social.

**3. In your opinion, what are the most important principles of sustainable cities? (Tick all the correct options)**

1. Mobilidade urbana eficiente.
2. Gestão sustentável de resíduos.
3. Acesso a espaços verdes.
4. Inclusão social.

**4.Which of the following best describes sustainable water management?**

1. Unlimited use of water withou considering environmental impacts.
2. Planning and use of water that guarantees its availability for future generations, considering social, economic and ecological aspects.
3. Increased groundwater abstraction without monitoring
4. Limited access to water for industries only.

**5. What characterises the circular economy?**

1. The production model which aims to maximize consumption and avoid waste of resources.
2. A system that promotes the use, recycling and reduction of waste, keeping resources in use for as long as possible.
3. The commitment to mass production of disposable products.
4. The exclusion of sustainable practices from the production process.

**6. How important are green spaces in building sustainable cities?**

1. Green spaces are leisure and recreation areas which degrade air quality.
2. Green spaces are important for urban aesthetics, have an impact on public health and increase the concentration of greenhouse gases.
3. Green spaces contribute to mitigate urban heat islands, improve air quality, promote biodiversity and offer psychological and social benefits to inhabitants.
4. Green spaces increase the amount of water used for irrigation, contributing to the lack of water resources in urban areas.

**7. Which of the following is known as "15-Minute City"?**

1. Helsinki, Finland.
2. Paris, France.
3. Milan, Italy.
4. Xangai, China.

**8.** **Cities such as Freiburg and Thisted have become benchmarks for energy sustainability by focusing on:**

1. Promoting wind power as an exclusive energy source.
2. Implementing biomass-based energy networks.
3. Promoting local and decentralised renewable sources.
4. Replacing combustion engine vehicles with imported electric ones.

**9. Relate the models of sustainable citie (Column A) to their respective characteristics (Column B).**

| **Coluna A** | **Coluna B** |
| --- | --- |
| 1. *Smart City* | a) Use of permeable surfaces and wetlands in urban areas to retain rainwater and mitigate flooding |
| 2. Sponge City | b) Use of ICTs to optimise the functioning of cities, in areas such as mobility, public lighting and waste management. |
| 3. 15-Minute City | c) Accessibility to all essential services using forms of soft mobility. |
| 4. Vertical Forests | d) Integrating vegetation into building façades to reduce CO₂ emissions and increase biodiversity. |

**10. Fill in the gaps to complete the sentences:**

The construction of sustainable cities is based on inovative concepts that address different urban challenges. The concept of 1)**\_\_\_\_\_\_\_\_\_\_\_**, presented by 2)**\_\_\_\_\_\_\_\_\_\_\_**, proposes the proximity of essential services such as health, leisure and education, so that they can be reached on foot or by bicycle. 3)**\_\_\_\_\_\_\_\_\_\_** is committed to the natural management of rainwater through green infrastructures.  4)**\_\_\_\_\_\_\_\_\_\_\_** proposes Vertical Forests, which is the integration of vegetation on building façades, which helps to capture CO₂ and promote urban 5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . Finally, 6) **\_\_\_\_\_\_\_\_\_\_** uses information and communication technologies (ITC) to monitor and optimize urban services such as traffic, energy consumption and waste collection.

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| *ANSWER KEY MODULE 3 SESSION 9 LESSON 2* | |
| *1* | *C* |
| *2* | *A* |
| *3* | *A, B, C, D* |
| *4* | *B* |
| *5* | *B* |
| *6* | *C* |
| *7* | *B* |
| *8* | *C* |
| *9* | *1 B)*  *2 A)*  *3 C)*  *4 D)* |
| *10* | 1. 15-Minute City 2. Carlos Moreno 3. Sponge City 4. Stefano Boeri 5. Biodiversity 6. *Smart City* |