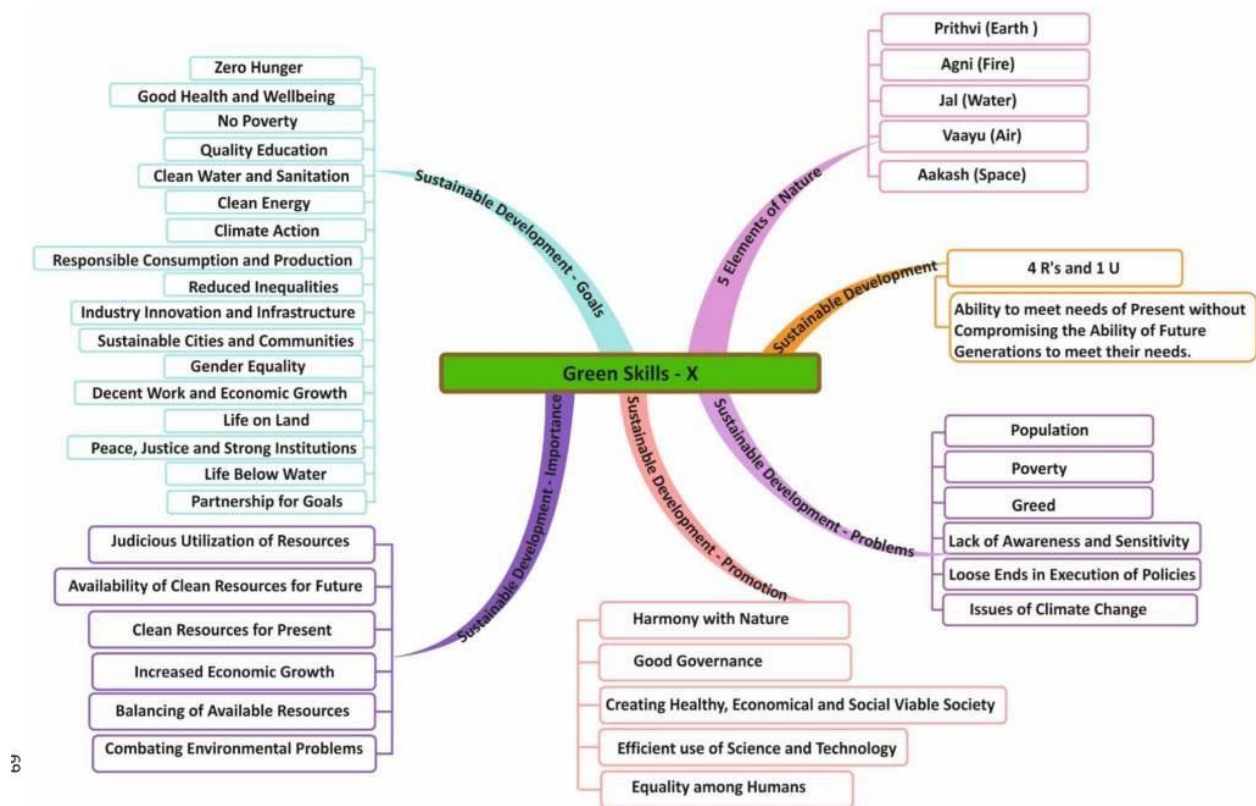


Class 10: Chapter-5

Green Skills



Sustainable Development

Sustainability focuses on how people can live peacefully and harmoniously with nature without harming the environment.

What are 4R's and 1 U of sustainability

The Department of Recycling & Resource Management uses the "4 R's" — Refuse, Reduce, Reuse and Recycle, "1U" means Upcycle — to teach the university community about trash minimization. Although the University has already achieved significant success in recycling, it

uses the 4 Rs as a way to involve the local population in efforts to reduce carbon footprint.

Refuse – We must first REFUSE to consume things that could harm the environment if we want to develop a sustainable environment.

Reduce – REDUCE is the next step, that is minimizing the use of the products that may cause harm to environment.

Reuse – We must REUSE these products as far as possible, in order to reduce the waste generation.

Recycle – RECYCLE is next. After the product has been used, we must make every effort to recycle it. Any time a product is recycled, the quality usually suffers and the new product isn't as good as the original.

Upcycle – UPCYCLING is the process of giving an old product a new look and making it appear attractive. It can be done manually or with the use of machinery.

Importance of Sustainable Development

Adopting sustainable approaches is important for sustainable development in the twenty-first century.

Judicious use of resources is of prime importance since the exploitation of resources is causing its depletion. We need to curb our usage to ensure that resources like air, water, forests are available to future generation. This would also mean that the resources are in their pure form.

The quality of basic resources is declining, creating serious health risks including cancer and bronchitis not just for the upcoming generation but also for the current generation.

These issues can be reduced by ensuring sustainability.

Economic inequality is a result of rising demand. The wealthy are getting richer while the underprivileged are getting poorer. Discrimination, criminality, and social imbalance are all caused by the unequal allocation of resources across several economic fronts. In order to maintain balance Sustainability matters.

Environmental problems like Climate Change, Emission of Green House gases are alarming. If everyone draws a line for themselves, we will be able to combat these issues with the help of Sustainable Development.

Economic growth will be helped by the adoption of sustainable development practises in our personal and professional lives. Young entrepreneurs can create higher results with minimal expenditure. The introduction of solar power plants, wastewater treatment facilities, electric vehicles, etc. would not only contribute to environmental protection but also to resource and financial savings. The term "green economy" refers to an economy that minimises environmental dangers and achieves ecological balance.

The following may be considered as the driving force to promote Sustainable Development:

- I. Protecting and living in harmony with the Nature
- ii. Considering all human being as equal
- iii. Promoting good governance

- iv. Using Science & Technology responsibly
- v. Creating healthy, social and economically viable society

Sustainable Development Goals

The United Nations Member States adopted 17 SDGs (Sustainable Development Goals) in 2015 as a global call to action to end poverty, protect the environment, and guarantee that all people enjoy peace and prosperity by 2030 in order to ensure sustainable development in our communities and the larger world. These SDGs understand that development must strike a balance between social, economic, and environmental sustainability and that actions in one area will have an impact on results in others. As follows:

- i. No poverty
- ii. Zero Hunger
- iii. Good Health and Well Being
- iv. Quality Education
- v. Gender Equality
- vi. Clean water and Sanitation
- vii. Affordable and Clean Energy
- viii. Decent Work and Economic Growth

- ix. Industry Innovation and Infrastructure
- x. Reduced Inequalities
- xi. Sustainable Cities and Communities
- xii. Responsible Consumption and Production
- xiii. Climate Action
- xiv. Life Below Water
- xv. Life on Land

- xvi. Peace, Justice and Strong Institution
- xvii. Partnership for the Goals

1. What is Sustainable Development?

- a. Without compromising the capacity of future generations
- b. Guaranteeing the balance between economic growth
- c. Care for the environment and social well – being
- d. All of the above

Answer ←

- d. All of the above

2. _____ consists of environment friendly methods of farming that allow the production of agricultural crops or livestock without damage to human or natural systems.

- a. Sustainable Agriculture
- b. Indefensible Agriculture
- c. Both a) and b)
- d. None of the above

Answer ←

- a. Sustainable Agriculture

3. What are the major problems related to sustainable?

- a. Food
- b. Water
- c. Fuel
- d. All of the above

Answer ←

- d. All of the above

4. An environment friendly way for production of power is

-
- a. Solar Energy
 - b. Hydro Energy
 - c. Wind Mill
 - d. All of the above

Answer ←

- d. All of the above

5. Sustainable development includes _____.

- a. Reducing excessive use of resources and enhancing resource conservation
- b. Recycling and reuse of waste materials
- c. Scientific management of renewable resources
- d. All of the above

Answer ←

- d. All of the above

6. When was the first time you heard of sustainable development?

- a. World Development Report
- b. First Earth Summit Report
- c. Human Development Report
- d. Brundtland Commission Report

Answer ←

- d. Brundtland Commission Report

7. Which of the following is NOT a goal for sustainable development that will be met by 2030?

- a. Gender Equality
- b. Good Health and Wellbeing
- c. Space Research
- d. Zero Hunger

Answer ←

c. Space Research

8. Sustainable agriculture consists of environmentally friendly methods of farming that allow the production of

_____.

- a. Production of agricultural crops
- b. Livestock without damage to human
- c. Natural System
- d. All of the above

Answer ←

d. All of the above

9. Sustainable development includes _____.

- a. Reducing excessive use of resources and enhancing resource conservation
- b. Recycling and reuse of waste materials
- c. Scientific management of renewable resource, especially bio-resources
- d. All of the above

Answer ←

d. All of the above

10. What are the sustainable development goals?

- a. End Poverty
- b. Protect the planet
- c. All people enjoy peace and prosperity
- d. All of the above

Answer ←

d. All of the above

11. The sustainable development Goals (SDGs) were launched at the _____.

- a. New York
- b. Australia
- c. Japan
- d. India

Answer ←

- a. New York

12. United Nations Sustainable Development Summit launched in New York in the year of _____.

- a. 2010
- b. 2012
- c. 2015
- d. 2020

Answer ←

- c. 2015

13. How many goals are launched in (SDGs)New York

- a. 17 Goals
- b. 18 Goals
- c. 19 Goals
- d. 20 Goals

Answer ←

- a. 17 Goals

14. What are the deadlines given to countries to achieve the Sustainable development target?

- a. 2025
- b. 2028
- c. 2029
- d. 2030

Answer ←

d. 2030

15. The SDGs have been framed with the objective to address vital issues facing businesses, governments and society, such as_____.

- a. Gender Equality
- b. Energy & Climate change
- c. Biodiversity
- d. All of the above

Answer ←

d. All of the above

16. Green growth could play an important role in balancing _____ priorities.

- a. Reduce the quantity of resources
- b. Social Equity
- c. Job Creation
- d. All of the above

Answer ←

d. All of the above

17. The United Nations Environment Programme (UNEP) defines the green economy as “one that improves human well-being and environment” and _____.

- a. Social Equity
- b. Significantly reducing environmental risks
- c. Ecological Scarcities
- d. All of the above

Answer ←

d. All of the above

18. Green Economy benefits _____.

- a. Society
- b. Environmental

- c. Economy
- d. All of the above

Answer ←

- d. All of the above

19. The National Skill Development Mission, which was officially launched by the Government of India in 2015 has been developed to create convergence across sectors and States in terms of _____.

- a. Create convergence across sectors
- b. In terms of skill training activities, states
- c. Including Green Skills
- d. All of the above

Answer ←

- d. All of the above

20. Which organization has made the Sustainable Development Goals.

- a. United Nations
- b. League of Nations
- c. UNICEF
- d. World Health Organization

Answer ←

- a. United Nations

21. Choose the option which defines sustainable development.

- a. Taking care of future generations
- b. Taking care of only ourselves
- c. Taking care of ourselves and the future generations
- d. Well-being of all

Answer ←

c. Taking care of ourselves and the future generations

22. Increasing population and development has led to the increase in consumption of the _____.

- a. Food
- b. Energy
- c. Water
- d. All of the above

Answer ←

d. All of the above

23. Which initiative was taken by the Ministry of Railways in Varanasi?

- a. Clay posts 'Kulhads' to replace plastic and paper cups
- b. Job creation for potters, which contributes to the economy.
- c. Reduce plastic waste
- d. All of the above

Answer ←

d. All of the above

24. Government implementing green projects in areas like _____.

- a. Waste management
- b. Energy conservation
- c. Green sanitation
- d. All of the above

Answer ←

d. All of the above

25. What are the fundamental sources of energy

- a. Nuclear fusion in the Sun (solar energy)
- b. Gravity generated by the Earth and Moon & Nuclear fission reactions

- c. Energy in the interior of the Earth & Energy stored in chemical bonds
- d. All of the above

Answer ←

- d. All of the above

26. It is created by the decomposition of buried dead animals and plants in lakes and oceans. It's found in oil wells above the oil.

Vehicles are powered by compressed _____ .

- a. Natural Gas (CNG)
- b. Biomass
- c. Nuclear energy
- d. All of the above

Answer ←

- a. Natural Gas (CNG)

27. _____ emissions into the atmosphere from burning oil, coal and gas for energy use is a serious problem as it is harmful to the environment.

- a. Carbon dioxide
- b. Oxygen
- c. Hydrogen
- d. None of the above

Answer ←

- a. Carbon dioxide

28. How we can contribute to economic growth.

- a. Study and find good jobs to take care of ourselves and our families.
- b. Work hard and contribute to society.
- c. Learn and develop skills so that we add value in our community.
- d. All of the above

Answer ←

d. All of the above

29. How to reduce inequalities?

- a. Be friendly with everyone.
- b. Help others by including everyone whether they are small or big, girl or boy, belonging to any class or caste.
- c. Including everyone while working or playing.

Answer ←

d. All of the above

30. How we can create sustainable cities.

- a. Save energy by switching off lights and fans when not in use.
- b. Use natural light as much as possible
- c. Use energy efficient lights (LED bulbs)
- d. All of the above

Answer ←

d. All of the above

31. How can we become responsible about our own environment?

- a. Reusing paper, glass, plastic, water, etc.
- b. Taking cloth bags to market carrying fruits and vegetables.
- c. Donate things we do not use such as clothes, books, furniture, food, etc.
- d. All of the above

Answer ←

d. All of the above

32. Tons of plastic are found in the seas, which is killing marine life. protecting marine life, saving our oceans from pollution is necessary to

- a. Reduce waste

- b. Respect habitat
- c. Choose sustainable seafood
- d. All of the above

Answer ←

- d. All of the above

33. _____ is leading to soil erosion and making land dry and unusable for cultivation.

- a. Cutting trees
- b. Reduce waste
- c. Using plastics
- d. Due to pollution

Answer ←

- a. Cutting trees

34. How you can help towards Sustainable Development Goals.

- a. Quality Education
- b. Clean Water and Sanitation
- c. Affordable and Clean Energy
- d. All of the above

Answer ←

- d. All of the above

1. What is Sustainable Development?

Answer – Sustainable development is the development that satisfies the needs of the present without compromising the capacity of future generations, guaranteeing the balance between economic growth, care for the environment and social well-being.

2. Importance of Sustainable Development.

Answer – Sustainability enhances our quality of life while also protecting our ecosystem and natural resources for future generations.

The world's young generations would face major environmental issues, worse than even those we are already facing.

The consumption of products is increasing day by day as the population and income rise. As a result, there has been a growth in the production and use of natural resources, which are required for the creation of goods.

Society must thus change its development strategy to a new form where development will not destroy the environment.

3. Problems Related to Sustainable Development?

Answer – There are three major problem related to sustainable Development –

a. Food – As we use more and more land for other uses, the amount of rich, fertile soil required to grow crops such as wheat, rice, and other grains. Chemical fertilisers are reducing soil nutrients and contaminating the soil with a variety of pollutants.

b. Water – We use fresh water from rivers and ponds for drinking and cleaning but dump garbage into them. Rivers and ponds are becoming more contaminated. This way after several years, we will have no clean water for our use.

c. Fuel – We use a lot of wood from trees for fuel, as well as for building homes and furniture. The climate of the area is being affected as more trees are cut down. Floods, extreme cold or heat, and other

extreme weather events are common in many regions, affecting the people who live there.

4. What steps do we have to take for sustainable development?

Answer – Sustainable development includes –

- a. Excessive resource consumption is being reduced, and resource conservation is being improved.
- b. Recycling and reuse of waste materials.
- c. Management of renewable resources, particularly bio-resources, in a scientific manner.
- d. Planting more trees;
- e. Green grassy patches and trees to be interspersed between concrete buildings.
- f. Using more environment friendly material or biodegradable material
- g. Environmentally friendly technologies that are based on resource efficiency are used.

5. What are different sustainable development goals?

Answer – Sustainable development is the development which doesn't compromise the capacity of the future generation to satisfy their needs.

In 1987 the first time sustainable development appeared in the Brundtland report. This was a warning to all countries regarding environmental consequences, globalization and economic growth.

Sustainable Development goals are also known as Global goals. There are 17 goals in sustainable development which were introduced in 2015.

There are total 17 Sustainable Development Goals are: :

1. Zero Hunger
2. No Poverty
3. Good Health and Well-Being
4. Quality Education
5. Climate action
6. Industry Innovation and Infrastructure
7. Gender Equality
8. Clean Water and Sanitation

9. Affordable and clean energy
10. Sustainable cities and communities
11. Decent work and economic growth
12. Reduce Inequalities
13. Responsible consumption and production
14. Life on land
15. Life below water
16. Partnerships for the goals
17. Peace, Justice and strong institutions

6. Sustainable Development Initiatives taken from the public in India.

Answer – Many people have taken initiatives regarding sustainable development.

Example

a. When plastics were banned in Mangalore, one entrepreneur, Mr. Vasth Hedge, created a biodegradable bag that can dissolve in hot water and degrade in the natural environment.

b. Narayana Peesapath created edible cutlery out of a grain; these spoons can be eaten and even if they are not eaten they will easily decompose in the soil.

7. What are Sustainable Processes?

Answer – Farmers who practice organic farming do not use chemical pesticides or fertilizers to boost their yield. To aid in the growth of crops, they use organic and natural fertilizers such as cow dung.

This contributes to higher-quality, chemical-free crops while also preserving the soil's quality for future usage.

8. What is the role towards Sustainable Development?

Answer – The importance of Sustainable Development in finding solutions to the world's growing problems. Countries should establish laws and guidelines to eliminate poverty and hunger, as well as to provide decent health and education.

Some of the important Sustainable Development goals are –

a. Quality Education

- b. Clean Water and Sanitation
- c. Affordable and Clean Energy
- d. Decent Work and Economic Growth
- e. Reduced Inequalities
- f. Sustainable Cities and Communities
- g. Responsible Consumers and producers
- h. Protect life below water
- i. Protect Life on Land