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Pollution and its Impact on Sustainable Development

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ABSTRACT

Pollution and its direct and indirect negative effects on humans, and animals is one of the most important issues that researchers have been studying and searching for radical solutions. Therefore, the research sheds light on the definition of pollution, its causes and environmental effects, its most important types, especially radioactive, industrial and household waste, and their levels of risk. The research focuses on the issue of air pollution resulting from fumes, smoke, and gases emitted from cars, factories, volcanic eruptions, and others. It also absorbs the problem of soil and water pollution due to the failure to properly treat factory, household and other waste, and the use of chemical fertilizers and pesticides harmful to water, air and soil. The research addresses the topic of noise pollution, and its causes by limiting loud noises from radio, television, cars, airplanes, music,

Key words: pollution, development, soil, noise, water, air.

I. INTRODUCTION:

The study of pollution and manifestations and impact on human life is one of the most vital topics at the present time, due to its close relationship with human life on the economic, social and environmental level. Despite human attempts to avoid the dangers of pollution, the exacerbation and multiplicity of its causes, cannot be reduced or controlled, especially after the industrial and economic development achieved by a number of developed countries. At the same time, other countries lacked the ingredients to avoid or reduce the risks of pollution caused by these developments. The research discusses the concept of pollution and its causes and impact on sustainable development. Its dimensions and objectives aimed to develop all the elements of life that meet the basic human needs and modern civil welfare requirements.

The research focuses on the types of radioactive and chemical pollution result from

industrial waste, cars, fumes, gases, smoke, etc., and the impact of environmental pollution of air, soil and water in achieving sustainable development. It also deals with the causes of pollution and the effects resulting from it, and the attempts and means to reduce its effects. It also tackles noise pollution, the causes, and means for dealing with it in the light of its negative effects on human life, and the general environment.

The concept of pollution

Generally, pollution means everything that negatively affects the elements of the living environment, including humans, plants and animals, and the composition of inanimate natural elements such as air, seas and rivers, soil, etc. . It refers to the spoiling of the environmental components that cause fundamental changes as a result of the presence of energy out of its correct location, time and appropriate quantities. It is the presence of internal materials that change the physical properties that can be observed, and without the need for measured measurement methods, as well as the chemical properties that are represented by the ability of a substance to combine with others or convert to another substance. Biomaterial features are represented by materials manufactured as an alternative to work in a direct contact with body tissues and organs, for all or some of the environmental components. So. they transformed from useful elements to harmful elements that lose their role, importance and value in making life. This results in harmful effects on humans, animals, plants and the ecosystem alike [1].

Environmental pollution is one of the forms of corruption caused by humans. God Almightymocked everything in the surrounding environment for human service. Yet, Man, through his wrong and unconscious behavior, causes a lot of damage to himself on the one hand, and theenvironment around him with all its resources and capabilities on the other hand. This matter



Volume 7, Issue 6 Nov-Dec 2022, pp: 670-679 www.ijprajournal.com ISSN: 2456-4494

hasnegatively affected all living organisms, including plants and animals. The human being isprimarily responsible for the pollution of the surrounding environment, and he is the real interestin protecting and preserving it from deterioration and decrease [2].

In this context, the hole in the Earth's atmosphere (ozone - natural gases that protect the earthfrom ultraviolet radiation) is attributed to the activities of the industrially developed countries. Its

ill effects were not limited to those countries only, but also affected all the inhabitants of theplanet. From this standpoint, the interest in the issue of the environment and its protection becamea vital matter that aroused the concern of all countries of the world, regardless of their political affiliations and economic development. developed countries have shown exceptionalinterest in their economic programs for the problem of environmental pollution compared thedeveloping countries, because population has reached high levels of prosperity andeconomic growth that has made them strive to protect the environment from the negative effectsof the industrial and technological advances that they have reached. Hitherto, the developing countries have not yet reached the fulfillment of the necessary needs and desires of theirinhabitants in terms of food and clothing, and their attention has focused on environmentalproblems and means of satisfying those needs. They aim to preserve their natural resources fromdeterioration and shortages, without any consideration of the environmental problems that could result from the exploitation of its natural resources [1].

There are two main types of pollution that humans create in the surrounding environment. Thefirst is characterized by its indirect effect on man, especially the pollution of the surroundingenvironment components of air, water and agricultural soil, and then its reflection on hispersonality. The second has a direct effect on the human being himself, such as noise pollution, and other pollutants that it causes [1-2].

It can be said that the methods of pollution varied from direct to indirect, but their effect is thesame, which is harmful to human health and threatening to his life.

In the same context, the danger of pollutants in the surrounding environment varied widely. Theyranged from acceptable, dangerous and very dangerous contamination. However, an acceptable pollution is not accompanied by any clear dangers affecting the aspects of life, within

the limitspermitted by international organizations and bodies on the surface of the earth. This does notcause any environmental problems. It existed in most countries of the world before the start ofindustrial developments in the mid-eighteenth century. At that time, the self-technology of theenvironment was able to absorb and contain that degree. Conversely, dangerous pollution is theone in which the environmental pollutants exceed the safe line, which leads to the disruption ofthe ecosystem as a whole, and the emergence of risks to the components of the environment, whether living or non-living. The emergence of this pollution is associated with industrial developments and the consequent increase in waste and residues arising from the associated industrial and technological development. Its impact continues to this day, at a time when themost dangerous environmental pollutants exceed the dangerous limit to reach the level ofdestruction[1].

It appears that the difference in the severity of the pollution did not prevent it from harminghumans, animals and plants, and this depends on possessing a strong immune system.

The causes of pollution

The causes of pollution are varied and different according to their sources. They are negatively affected human, animal and environmental health alike.

(1)Radioactive pollution: It can be considered as one of the main factors of a global impact. It isnot limited to soil only, but also to water and air. Humans are exposed to industrially radioactivematerials as a result of the fallout of atomic dust from nuclear bombs, or the emissions in theindustrial and military use of nuclear energy and other radioactive materials uranium. This led to the collection of war remnants sound scientific methods and comprehensiveradiological survey [3].

(2)Pollution by industrial and household wastes: This type results from the industry sector, whichrepresents one of the main sources of pollution, especially water resources, because mostindustries are designed in their sites or discharged their waste without taking into account theenvironmental conditions near Wastewater for industry was characterized by highconcentrations of pollutants, most of which discharged into rivers without treatment.Unprogrammed industrial development devoid of safety measures and taking into account theenvironment. Random urbanism, population



Volume 7, Issue 6 Nov-Dec 2022, pp: 670-679 www.ijprajournal.com ISSN: 2456-4494

development, and consumer demands exacerbate theproblem and increased its damages. This fact necessitates the establishment of advanced factoriesto burn waste and to fragment them, to enact environmental laws that compel every company orfactory to bear the costs of collecting, transporting and treating waste. It is essential to manageindustrial waste through the reuse of metals, plastics, paper and glass, taking into account thenecessity to avoid the hazardous effects of flammable, and reactive or toxic waste [3-4-5].

- (3) Population growth: Population growth pushed the unnatural exploitation of natural resources to provide the basic requirements for daily life, and increase public wealth and economic growth. The increasing demand per person depleted the production of goods and services, results in awaste of materials and energies[3].
- (4) The nature of modern technology: It has been linked closely in recent vears with theenvironmental crisis.The productive technologies of World War II, which had severe impacts on the environment, replaced the earlier, less destructive technologies. This led to the non-biodegradable emergence of synthetic materials such as plastics, chemical nitrogen fertilizers, synthetic detergents, synthetic fibers, petrochemicals other large cars, and environmentally harmfulindustries[3].
- (5) Agricultural and industrial development: Agricultural development has contributed to theexpansion of agricultural lands and the increase in productivity due to the development of modern scientific technologies. The increase in the production and use of chemical fertilizers, theexpansion in the fields of irrigation, and the development of high-yield varieties of seeds createdangerous environmental problems. The industrial development, which represented a criterion ofmodernity and a necessary element for the socio-economic development of society, led to theproblems of environmental pollution. The rapid rate of industrialization led to the rapidexploitation of natural resources and the increase in industrial production[3].
- (6) Urbanization: The displacement of people from rural areas to urban centers have expandeddue to industrial development and led to environmental degradation and pollution in developed and developing countries. The concentration of the population began to increase in a limited

area, which led to an increase in buildings, roads, streets, sewage drainage, storms, vehicles (cars, trucks, buses, motorcycles ...etc.), and an increase in the number of factories, waste, smoke, dustand sewage water [2-5].

Air pollution

Air cleanliness is closely linked to human health, comfort and enjoyment. This is what can beclearly felt when the individual moves from a crowded and populated city to the countryside orcoastal areas of the sea. The difference between the two is distinguished in the purity of the air. It can be said that air pollution is an expression of a change in the physical and chemical composition of the air, which may be in the form of particles in the air such as dust, vapors, carbon dioxide, gases. The sources of this pollution differ according to the nature of the achieved action that it causes [6], and its effects lie in:

- (1)The exhaust from transport cars, whose danger has reached a high level and even fatal in somecountries, according to the study presented by the University of Birmingham, England. There is aclose correlation between individual deaths and vehicle exhaust pollution. In 2005, a studyindicated more than three hundred and ten thousand people died in Europe due to air pollutionand their affliction with lung diseases, respiration, allergies, asthma, narrowing of the arteries of the heart and others. This required a number of countries to enact environmental laws to limit carexhaust emissions and limit their movement on the roads [2-7].
- (2) Gases results from various forms of manufacturing processes are one of the main causes of airpollution, which is more widespread than the rest of the other types of pollution, due to its easytransfer and spread in different regions [7].
- (3) Construction operations, such as demolishing buildings, roads, and various projects are animportant and major source of stirring dust and the dispersal of its fine particles into theatmosphere and causing pollution. The sources of gas emissions and air pollution can be classified into the following [7]:
- (A) Manufacture and transportation of construction materials.
- (B) Energy consumed in construction equipment.
- (C) Energy consumption that is used to treat building process of input sources.
- (D) Method of disposal of waste result from construction operations.



Volume 7, Issue 6 Nov-Dec 2022, pp: 670-679 www.ijprajournal.com ISSN: 2456-4494

(4) Volcanic eruptions and ground earthquakes are another cause of air and environmentalpollution that comes from nature. Its residues of dust, gases and heat emissions are the causes of air pollution. Man is considered the first and most influential source of air pollution due to theuncontrolled activities he performs in his productive work or his daily life practices. This isconfirmed by the Organization for Economic Co-operation and Development which indicates thathuman subtraction of carbon dioxide through his various activities is responsible by about (60%) for the increase in the phenomenon of pollution and high temperatures of the air and the globe [5-7].

Pollution of soil and water

Information released by the institutions of soil science and water resources reveals that soilpollution is the entry of foreign objects that leads to a transformation in the chemical andphysical composition. This results from the use of pesticides, fertilizers, and acid precipitationthat change the pH of the soil - measuring its acidity and dumping radioactive waste, etc [6-8-9]. On the other hand, pollution affects water sources, whether oceans, seas, lakes, rivers, andgroundwater, causing direct and indirect harm to all living organisms. Water pollution hasbecome the main problem all over the world, and has become a major cause of death and disease, not only in poor and developing countries, but also in industrialized and developed countries.

Governments have struggled through their various institutions and civil organizations to addressthe problem of water pollution. In this regard, the World Health Organization has indicated startling figures about the role of polluted water in killing about five million people annually inthe world, which is more than what is caused by acquired immune deficiency (AIDS), which kills three million people annually. gastroenteritis, diarrhea vomiting, hepatitis and brain infections, prostate, lymph nodes, liver diseases, rashes, hormonal problems and others are the most prominent diseases that result from water pollution that affects humansand leads to death [7].

The sources of water pollution in the world are many and different due to the diversity of methods that led to the pollution. Yet they can be determined mainly as follows:

(1)Various industrial processes lead to direct or indirect pollution of water, such as throwingindustrial waste or water used in

manufacturing processes into natural waterways in violation of the law and environmental regulations. This leads to human harm depending on the nature of thematerial and the waste. If water is drunk directly or through filtering and sterilization processes that do not meet the appropriate health conditions, the damage will be reflected on humans, fishand other aquatic and non-aquatic organisms that live in or consume it directly. The impact of theindustry and its uncontrolled processes on the water, especially the emission of smoke and toxicgases from factory chimney towers, lead to air pollution. Also, acid rain that results from humanactivities can interact in the atmosphere and mix with particles Pollutants in the air to lead to soilpollution. Then, its slope to waterways leads to the death of plants and aquatic animals, andperhaps humans as well [4-7].

(2)Human errors in dealing with machinery, machines various means and transportation, extractive transformational and processes of raw materials, and the leakage of oil from large andgiant oil tankers have increased the degree of water pollution and their impact on human beingsand aquatic and natural animals. It also includes the field of oil extraction and the transportationof its derivatives on ships across oceans and seas, and between the oil-producing and the oilconsuming countries [7].

(3)The use of chemical fertilizers to help agricultural crops grow quickly and in a larger size that are added to the soil and sprayed on plants can seep into the groundwater as a result of rain orwatering, and eventually reach different waterways and leading to water pollution [7].

(4) Solid (heavy) waste leak from homes directly into natural water streams, especially in poorcities that do not contain infrastructure to protect the environment such as sewers or earth-tight box tanks to preserve the waste and withdraw it through the designated pond cars for this. Theyaffect humans and the environment leading to grave dangers and intractable diseases [6-7].

The sources of water pollution are divided into:

(A) Specific pollution sources:

It refers to the sources that flow into water bodies through well-located outlets, making it easier tobe controlled . The quantities of accessories that flow from them can be measured, their physical, chemical and biological properties determined, and the amount of pollution that results



Volume 7, Issue 6 Nov-Dec 2022, pp: 670-679 www.ijprajournal.com ISSN: 2456-4494

from them. These pollutants also include waste from industry and sewage [10].

(B) Unspecified sources of pollution:

They are pollutants from many sources that cannot be controlled directly. It includes wastes resultfrom agricultural activity or those that are spewed by torrential waters and dumped into waterbodies. Accidents involving trucks and pipelines transporting hazardous liquids lead to the leakage of various pollutants and their access to water bodies and acid rain are common examples of unspecified sources of pollution [10].

Means of preventing pollution

Incineration is used in special furnaces that built from refractory bricks, which represent a massof ceramic fused lining furnaces and stoves to withstand the high temperatures that guarantee thekilling of microbes and insects and the disposal of waste and garbage residues. Ash residues arereceived in areas far from the population and farms, especially in uninhabited desert areas or byfilling ponds, swamps and canals to be disposed of, after treating them chemically to kill theirmicrobes and insects and to cover them with quantities of sand three centimeters thick in distantareas. As it is a salty area, it is not suitable for cultivation until about forty-five days of treatmentand drying [11].

In order to avoid the spread of diseases that are transmitted to humans through polluted waterused for irrigation of fruitless agricultural crops on the one hand, and to maintain long-termfertility of the soil on the other hand, it is necessary to treat sewage water before its use inirrigation [11]. On the other hand, wastes such as (manure - food remnants in the rumen) and(dung - what the hoof excrement brings) are collected and transported outside the city away fromthe slaughterhouse in places designated by the municipality, then it is buried in trenches andcovered with a layer of soil not less than half a meter. It can be used as agricultural fertilizers[11].

Waste disposal depends on the following methods:

- (1) The unfit waste are collected and the appropriate disinfectants are put on it. Then, they are putin boxes and disposed of by burning or burial under the supervision of the municipality concerned in the region. The provision of small cars, equipment, supplies and specialized manpower is alsotaken into consideration.
- (2) The space allocated for containers carrying waste behind the slaughterhouse from the level

- of the natural surface is reduced about by about 1.80 meters to facilitate unloading the contents of small cars in it.
- (3) An appropriate system for disposing of wasted water outside the slaughterhouse area isprovided after treating it chemically, and then disposing of it in the public sewers of the city.
- (4) Meat transport vehicles are sold to prevent contamination [11]. These methods are of great importance to prevent or reduce pollution, if they are adopted according to sound principles.

Noise pollution and its health and psychological impact

Our civilized world is facing another type of environmental pollution on the social, cultural andscientific level, results from an unwanted sound that can affect human health by negatively affecting his psyche. It leads to discomfort and aggressive behavior, or even exposure to high blood pressure or sleep disturbances that sometimes lead to severe depression. Frequently, the ource of this pollution the transportation systems, construction, machinery and equipment used in many fields. The poor urban planning of cities is one of the causes of this type of pollution, especially in London Heathrow Airport, which is located about twenty kilometers from the centerof the capital in the western direction, within the surrounding residential neighborhoods. Londonhas suffered from the noise of airplanes landing very close to their surfaces [7].

Other sources of noise pollution that would have a negative impact not only on the psyche andcomfort of the human being, but even on the hearing sense of those working in these professions, such as loud concerts, emergency sirens, the sound of alarms in cars, construction and demolition buildings, animal sounds, etc., [2-7].

Health and psychological effects of noise pollution

(A)Psychological effects: The high volume of voice above the normal range leads to a lack of vital activity, excitement, anxiety, tension, confusion, disharmony and lack of thinking. However, this depends on several factors, including the length of exposure, the intensity of the voice, thelocation of the hearer from the source of the sound, and the sudden sound [12].

(B)Neurological effects: The effect of noise reaches through nerve fibers to the central cells of thebrain and irritates them, which is reflected in the body's

IJPRA Journal

International Journal of Pharmaceutical Research and Applications

Volume 7, Issue 6 Nov-Dec 2022, pp: 670-679 www.ijprajournal.com ISSN: 2456-4494

organs, especially the heart, the nervousand digestive systems [12].

(C)The effect on hearing: When a person is exposed to a sound of very high intensity, he beginsto get upset and complain about it, which causes a weakness in the sense of hearing [12].

The most important sources of noise and methods of treating it

The factors of human activity, especially the various means of transport that include the land, such as cars, motorcycles, freight carriers, etc., are among the most important sources of noise inaddition to construction and urban construction, road paving and service projects, and electrical appliances used in homes and work offices, including television, radio and vacuum cleaners. And others, and finally factories and industrial establishments. Natural factors (thunder, high seawaves, volcanic eruptions, earthquakes) participated in this [12].

The following are among the methods of treating noise pollution[7-12]:

- (1)The speed of cars should be restricted to prevent the use of the parking brake, and the loud andannoying noise emitted by them, with the development of traffic regulations to regulate trafficand determine the types of trucks permitted to use the roads.
- (2) Aircraft noise should be restricted by adjusting flight directions over major cities and moving airports outside them, using the day runway mostly instead of night landing, and supporting housing near airports with buffer walls to reduce noise.
- (3) The work system and the design of industrial equipment should be reconsidered to reducenoise in factories, as well as the use of protectors to block the sound from the ears of workers or cover the internal walls of factory buildings with covers that absorb sound.
- (4) The state put laws and regulations that limit noise pollution.
- (5) Raising awareness through the various media to survey the dangers of noise on public health.
- (6)The proper urban planning should be taken into account and the sites of schools, hospitals andresidential areas that are far from the sources of noise.

- (7) Increasing green spaces can be achieved by creating gardens around housing, schools andneighborhoods.
- (8) Keep airports, railway stations and public transport away from city centers and populatedareas.
- (9) A comprehensive traffic plan can be developed to ensures traffic flow and traffic flow toprevent congestion, which is one of the main causes of noise.
- (10) The use of sound-insulating materials in building homes, work offices, schools and hospitals, especially in crowded and noisy locations.
- (11) The use of loudspeakers, car alarms, televisions, radios, music, etc should be limited.

The Concept of Sustainable Development

Sustainable development can be defined as a dynamic process consisting of a series of balancedsocial, economic and environmental measures and changes aim to develop human energies, andprotecting the earth, cities and trade. It aims to secure the needs of society, its welfare, security,safety and prosperity, compromising the ability of future generations to achieve this inthe future. Accordingly, it means the creative and productive work conditions that provide theincome and a better life for all people. This does not mean reducing them to enhancing economicand material benefit or well-being only. but rather seeks to develop human capabilities in ahealthy environment that contributes to raising the scientific, cultural and social level of society[13-14-15].

The main goal of sustainable development is human development, whose goals can besummarized as follow[13-15]:

- (1)it Builds a society capable of facing life and its developments in a positive and effective manner.
- (2) It helps positive thinking and developing its horizons towards depth and inclusiveness.
- (3) It educates societies on mastering the communicative skills according to sound moral foundations.
- (4) It enhances the individual's ability to develop his performance and capabilities in accordance with the requirements of his job and his tasks.
- (5)It emphasizes the value and importance of time, training skills, utilizing energies and



Volume 7, Issue 6 Nov-Dec 2022, pp: 670-679 www.ijprajournal.com ISSN: 2456-4494

talents,drawing life goals, and mastering how to deal with problems in a positive and effective manner.

Negative effects of pollution on sustainable development

Pollution has a significant negative impact on sustainable development, which can be summarized follows [3-14]:

- (1) It leads to decline in agricultural and animal production due to the infection of animals, plantsand crops with various pests and diseases.
- (2) It decreases the labor productivity in various economic sectors as a result of workers suffering of various types of diseases and psychological and social problems.
- (3) The decrease in the productivity of the economic sectors is accompanied by an increase inspending money to address the social and economic effects of environmental pollution, whichburdens the state and contributes to impeding the treasurv development process. However, the exacerbation of environmental problems increases with lower development rates and high costs, which necessitated the contribution of society and all stakeholders in the public and privatesectors in preserving the environment, in order to reduce the negative effects of environmental pollution that impede the development process.

Economic effects of environmental pollution

In light of the continuing exacerbation of environmental pollution, economists have argued thatthe degree of overcoming the problem is measured by the size of the real income per person. Formed a criterion for progress is represented by working to raise the average per capita realincome, while economic activity does not continue due to the increase in the consumption rates of permeable natural resources. The practice of production and consumption activities leads to the emergence of wastes in nature that require disposal. The more waste, the greater the pollution rates in the environment surrounding humans [3-15].

The most important negative effects resulting from environmental pollution are the following:

First: The environmental impacts resulting from toxic waste:Despite the danger of toxic waste, some countries have found the Environmental Depot a solution without costs to dispose of them. The accumulation of toxic waste and not disposing it byscientific methods leads to many environmental problems, especially pollution in all

its dimensions. It leads to air pollution with viruses, epidemics, and dangerous diseases [3].

Second: The economic impacts resulting from the accumulation of hazardous wastes: There are several economic impacts results from the accumulation of hazardous waste, and failure to dispose of it by scientific methods, including [3-15]:

- (1) The length of the bed rotation period in the hospital is prolonged due to the spread of diseasesand germs, which leads to the prolonged stay of the patient in the hospital as a result of airpollution with microbes and epidemics.
- (2) The per capita health care costs rise, and the increase in the number of injured leads to theabsence of workers from production centers, which leads to a decrease in productive capacity.
- (3) Pollution-fighting costs increase as governments spend huge sums of money to combatpollution resulting from the accumulation of waste. This exacerbates the economic losses of lostmaterials, energy and processing costs that exceed the budget of some countries.
- (4) Pollution affects development rates, as its increase contributes to reducing the volume ofeconomic resources allocated to support basic needs and disrupting their employment in the rightcontext.
- (5) The economic and human impacts result from the explosion of nuclear plants that leavedangerous nuclear and radioactive waste and radioactive quantities in the atmosphere .

The economic costs of environmental pollution

It includes the costs of the measures are taken to manage the environmental impacts that resultfrom the activity of the production unit, as well as the other costs required by the objectives or theenvironmental requirements of the production unit. Environmental expenditures represent thecosts of the steps taken to avoid environmental damage resulting from the exercise of theproduction unit's activity. It includes the expenses of landfill and disposal of waste, water and airquality conservation and improvement, noise reduction, and the search for products, raw materialsand production processes that are more environmentally friendly [3-15].

In general, the costs are divided into [3-15]:

(1)Direct environmental costs: It includes (medical treatment of diseases caused by productionunits,



Volume 7, Issue 6 Nov-Dec 2022, pp: 670-679 www.ijprajournal.com ISSN: 2456-4494

wages and salaries for people with disease due to pollution, damage to agricultural crops inareas affected by pollution, waste disposal operations).

(2)Indirect environmental costs: which serve the production stages as a whole, such as the costsof environmental resources depleted during the production process, especially air, water, plantsand animals. The negative effects of pollution are not limited to the material losses it causes, butalso include the amount of money spent on getting rid of pollution, combating it, and protectingthe environment from it. It depends on the funds allocated to implement development plans. There are several theories that attempted to study the extent of environmental risks and estimatetheir economic cost, including the (Preventive school) that depends on the necessity of providingthe maximum possible protection for the environment and not using it at all for development andeconomic growth. On the other hand, supporters of (the utilitarian school) saw the possibility of reducing the effects of pollution by adopting modern technology. Though, supporters of (theSchool of Economists), insist on the need to employ the environment to achieve economicdevelopment. Supporters Conservative School) called for the possibility of advancing theenvironment and employing its natural resources in ways that protect them from pollution. Apartfrom these theories, international statistics indicate an increase in the size of the economic andfinancial burden of environmental pollution at the global level. The reports of The United Nations(Institute for Global Environment Watch) estimated the size of those burdens at about fortytrillion dollars. Its statistics revealed that the size of combating pollution needs to spend 3-4% ofthe global national product.

The impact of environmental pollution and protection of sustainable agro-economic Development

At a time when the human being represents the objective of development, he is one of the mostimportant means of achieving it. The preservation of his health and well-being are among the most important objectives of plans and programs. Relevant studies have shown the negativeconsequences of the human role in polluting terrestrial or aquatic agricultural resources and itsimpact on the areas of agricultural development in society.

In order to achieve the objectives of any development programs, the economic resources

availablein the surrounding environment (air, water, land) must be better exploited to maintain them from degradation and decline. There is a correlation between economic resources and environmentaldevelopment. as economic development cannot be achieved without those resources. When thesize of economic resources in general and natural resources in particular increases, the opportunities for development increase, and vice versa. At the same time, the economic resources are only found in an environment with which man interacts and harnesses them to satisfy hishuman desires. Then, any deterioration in the surrounding environment could lead to the faltering of economic development plans and programs in society. There are many development modelsthat have led to the depletion of environmental resources on which economic development issupposed to be based [1-15].

Consequently, the importance of preserving the natural economic resources available to society ingeneral, and agriculture in particular, is evident, especially as they are characterized by theirrelative scarcity. No matter how much of it is available in society, it cannot produce all the goodsand services needed to satisfy all human desires. Hence, any waste or extravagance in the use ofwhat is available in society will affect the ability to produce the necessary food and clothinglocally. This may force it to depend on the outside to provide the necessary needs, which wouldimpede development plans, agricultural programs and food production, and consequently, theeconomic and political instability of society [1].

The economic resources available in any society are the property of all present and futuregenerations. Hence, the responsibility of the present generations must go beyond the limits oftheir exploitation of the available agricultural natural resources, to preserve them from depletionand waste resulting from misuse in order for future generations. to preserve them Accordingly, the aforementioned and other reasons show the importance of working to use the availableagricultural economic resources, in order to achieve the desired goals of economic developmentin society on the one hand, and to protect and preserve its quality from deterioration anddeficiency for future generations on the other hand. This is an effective way to ensure success andto the continuation of agricultural economic development efforts in achieving the desired goalsfor the present and future generations [1].

The protection and preservation of natural resources is a humanitarian issue, in which the

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personis primarily responsible for its pollution and waste, as well as the first victim of its negativeeffects. At the same time. responsibility falls on his shoulders to protect and prevent pollution. This leads the human being to the necessity of preserving these resources from depletion and annihilation, and to exploit them with knowledge and rationality in order to achieve his wellbeing. There are several means and methods that can protect and preserve agricultural naturalresources from the qualitative degradation resulting from pollution. Preventive ones are based on he use of clean production technology that does not lead to the emission of pollutants. At thesame time, there are other procedural means that were based on laws and legislations inprotecting natural resources to limit the pollution of available natural resources [1].

II. CONCLUSION:

The research reached to a set of important results:

- (1) Pollution is the most important threat to human, animal and plant life, directly and indirectly.
- (2) Pollution can be attributed to several causes, such as atomic radiation, gases and fumes fromfactories, transportation means, chemical pesticides, wastes and others.
- (3) Air pollution is one of the most dangerous types of pollution due to the inability to reduce itdue to its rapid spread over large areas.
- (4) The use of contaminated and untreated water, as well as pesticides in unregulated quantities, leads to the contamination of soil. Also, water pollution poses a threat to human life and most marine organisms due to throwing liquid and solid waste into it.
- (5) One of the most important goals of sustainable development is to achieve human well-beingand prosperity in all aspects of life, which has created social, economic and environmental dimensions.
- (6) Pollution has greatly impeded the achievement of the sustainable development goals, due toits heavy damage to agricultural, industrial and livestock production. It also inflicts great harm onthe human being and makes him lose his skills and ability to achieve his ambitions for a better lifeand environment.

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