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# RESEARCH JOURNEY

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## A Comparative Study of General Environmental Awareness of Degree College Students studying Biological & Physical Science Subjects

Dr. Balaji R. Lahorkar

Principal, Smt. Sindhutai Jadhao Arts & Science College,  
Mehkar, Dist. Buldana. Pin 443301 (MS)

### Importance of Environmental Awareness :

Being aware about the Nature, Environment & Earth and behaving to benefit it rather than hurt is called Environmental Awareness. Humanity's entire life support system depends on the well-being of all the environmental factors. Environmental awareness is important as it creates, fosters and strengthens a sense of connection to the nature, promotes sustainable development and encourages conservation of irreplaceable natural resources and vulnerable plants and animals in the environment. A greater awareness of natural resources in the Environment, an understanding that resources on Earth are finite, understanding the need for energy conservation, it helps students to develop a deeper understanding of environmental issues and have the skills to make informed and responsible decisions. Environmental awareness strengthened through education encourages research, investigation, ability to face various environment challenges.

Environmental Awareness among people only can frame various directives for environment protection. The researcher is a Teacher of Environmental Studies to Degree College Students, he teaches the subject to both the Students studying Biological & Physical Science Subjects. As the Biological Science Studying students are acquainted with the knowledge of ecology, biology, plant science, zoology etc, on the other hand the physical science studying students are acquainted with the knowledge of physics, chemistry and geology, with environmental concerns. Students in these programs learn to use scientific theories and methods to preserve the environment. And as the Environmental Studies is interdisciplinary field of study, which combines ideas and information from both the Biological & Physical Science Subjects, it is the duty of teacher to interrelate the knowledge among the EVS Students from relatively different streams. Hence the Researcher wanted to compare the General Environmental Awareness of Degree College Students studying Biological & Physical Science Subjects.

### Objectives of the Study :

To Compare the general awareness of degree college students studying biological & Physical science subjects regarding -

1. The branch of biology that deals with the relations of organisms to one another and to their physical surroundings.
2. The regions of the surface and atmosphere of the earth occupied by living organisms.
3. The biotic and abiotic factors within an ecosystem.
4. How each living thing gets food, and how nutrients and energy are passed from creature to creature through food chain.
5. Temperature tolerance ability of plants & animals.
6. Causes of reduction of ozone, acid rain, pollution, soil erosion.

### Methodology of Research Used for the study :

The researcher used survey method of primary data collection in order to test the general awareness of degree college students studying Biological & physical science subjects.

**Data collection tool used for the study :** The researcher used General Awareness: Environment Quiz available on the website of JAGRAN JOSH (<https://www.jagranjosh.com>) for collection of data for the survey in order to test the general awareness of degree college students studying Biological & physical science subjects.

**Statistical tool used for the study :** The researcher used percentage as Statistical tool for the study.

**Population, Sample of the study :** The B.Sc. Students of Smt. Sindhutai Jadhao Arts and Science College, Mehkar, Dist. Buldana studying in the year 2019-2020 is the population of the study. Sample of 50 Students each studying Biological & physical science subjects were selected by random sample method from the population.









<b>4. The green plants are called:</b>				
(A) Producers	(B) Consumers	(C) Decomposers	(D) None of these	
29	8	10	3	50
<b>5. Total organic matter present in an ecosystem is called:</b>				
(A) Biome	(B) Biomass	(C) Biotic community	(D) Litter	
8	24	11	7	50
<b>6. Plants are killed at low temperature because:</b>				
(A) Desiccation takes place owing to the withdrawal of water from vacuolated protoplasm	(B) Precipitation of cell proteins	(C) Cells rupture due to the mechanical pressure of ice	(D) All the above three are correct	
13	5	3	29	50
<b>7. Which one of the chemicals is responsible for the reduction of ozone content of the atmosphere?</b>				
(A) SO <sub>2</sub>	(B) Chlorofluorocarbon	(C) HCl	(D) Photochemical smog	
6	31	6	7	50
<b>8. Acid rains occur when atmosphere is heavily polluted with:</b>				
(A) CO, CO <sub>2</sub>	(B) Smoke particles	(C) Ozone	(D) SO <sub>2</sub> and NO <sub>2</sub>	
11	11	4	24	50
<b>9. Spraying of DDT on crops causes pollution of:</b>				
(A) Soil and Water	(B) Air and Soil	(C) Crops and Air	(D) Air and Water	
36	5	6	3	50
<b>10. Soil erosion can be prevented by:</b>				
(A) Increasing bird population	(B) Afforestation	(C) Removal of vegetation	(D) Over grazing	
6	29	6	9	50

#### Findings of the Study :

- Ecology is the Branch of Biology which is concerned with the inter-relationship between plants and animals:** 58% is the percentage of awareness regarding this among degree college students studying biological science subjects, 44% is the percentage of awareness regarding this among degree college students studying physical science subjects.
- Biosphere is the largest unit of living organisms on earth:** 70% is the percentage of awareness regarding this among degree college students studying biological science subjects, 48% is the percentage of awareness regarding this among degree college students studying physical science subjects.
- Biotic and abiotic are the two components of ecosystem:** 78% is the percentage of awareness regarding this among degree college students studying biological science subjects, 48% is the percentage of awareness regarding this among degree college students studying physical science subjects.

- The green plants are called producers in the food chain:** 76% is the percentage of awareness regarding this among degree college students studying biological science subjects, 58% is the percentage of awareness regarding this among degree college students studying physical science subjects.
- Total organic matter present in an ecosystem is called Biomass:** 58% is the percentage of awareness regarding this among degree college students studying biological science subjects, 48% is the percentage of awareness regarding this among degree college students studying physical science subjects.
- Desiccation takes place owing to the withdrawal of water from vacuolated protoplasm, Precipitation of cell proteins and Cells rupture due to the mechanical pressure of ice are the causes of killing Plants at low temperature:** 78% is the percentage of awareness regarding this among degree college students studying biological science subjects, 58% is the percentage of



awareness regarding this among degree college students studying physical science subjects.

7. **Chlorofluorocarbon chemical is responsible for the reduction of ozone content of the atmosphere:** 80% is the percentage of awareness regarding this among degree college students studying biological science subjects, 62% is the percentage of awareness regarding this among degree college students studying physical science subjects.
8. **Acid rains occur when atmosphere is heavily polluted with SO<sub>2</sub> and NO<sub>2</sub>:** 54% is the percentage of awareness regarding this among degree college students studying biological science subjects, 48% is the percentage of awareness regarding this among degree college students studying physical science subjects.
9. **Spraying of DDT on crops causes pollution of Soil and Water:** 84% is the percentage of awareness regarding this among degree college students studying biological science subjects, 72% is the percentage of awareness regarding this among degree college students studying physical science subjects.
10. **Soil erosion can be prevented by Afforestation:** 70% is the percentage of awareness regarding this among degree college students studying biological science subjects, 58% is the percentage of awareness regarding this among degree college students studying physical science subjects.

#### Conclusion :

The Comparative Study conclude that, the Students studying biological science subjects are more aware than students studying physical science subjects about the Environment regarding

1. The branch of biology that deals with the relations of organisms to one another and to their biological surroundings.
2. The regions of the surface and atmosphere of the earth occupied by living organisms.
3. The biotic and abiotic factors within an ecosystem.
4. How each living thing gets food, and how nutrients and energy are passed from creature to creature through food chain.
5. Temperature tolerance ability of plants & animals.
6. Causes of reduction of ozone, acid rain, pollution, soil erosion.

#### Recommendations :

Students studying Physical Science Subjects should be encouraged more than the Students studying Biological Science Subjects to share their environmental knowledge so that the identification of environmental awareness among them could be at acceptable level, for this the organizer has to plan various activities. The activities like picking the News of various environmental issues published in daily newspapers and comment on it would be allotted in the combined group of both the subject students. This will help them be more knowledgeable about environmental issues by sharing the knowledge they are having with the different science streams.

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*Prashant*  
Coordinator - IQAC  
Smt. Sindhutai Jadhao College  
Mehkar, Dist. Buldana