

## Environmental education

- I. Bit questions MARKS  $\frac{1}{2}$
- Excess presence of green house gases in the atmosphere causes ----- ( )  
A) Green House effect B) Ozone Depletion C) Global Warming D) Catastrophe
  - Green house gases are ----- ( )  
i) CO<sub>2</sub>, ii) NO<sub>2</sub>, iii) CO, iv) methane  
A) i & ii B) ii & iii C) iii & iv D) I, ii, iii & iv
  - Scientist first time spoke about the green house effect is ( )  
A) Jean Baptist Fourier B) Van Lemech C) Darwin D) F.W.Went
  - Solid particles and liquid droplets present in air called ----- ( )  
i) Aerosols ii) Chloro fluoro carbans iii) Hydro carbons iv) Halogens  
A) i B) ii & iii C) iii & iv D) ii, iii & iv
  - Higher concentration of particulate(aerosols) prevents -----to escape from the earth. ( )  
A) rain B) pressure C) heat D) cold
  - Dengue is caused by the virus \_\_\_\_\_ ( )  
i) House fly ii) cat iii) cockroach iv) mosquito  
A) i B) ii & iii C) iii & iv D) iv
  - If we work hours together on computers and cell phone affected by \_\_\_ ( )  
A) light B) heat C) both D) radiation
  - is the best ever green energy resource. ( )  
A) solar energy B) thermal energy C) chemical energy D) wind energy
  - Expand WLTA ----- (Water Land Tree Act)
  - The only solution for all environmental problems is ----- ( )  
A) Reduce emission B) control pollution C) planting trees D) control plastic carry bags
  - Substances that are not broken down by biological process are said to be-- ( )  
A) Degradable B) bio- degradable C) non degradable D) non bio - degradable
  - are the natural walls to protect from the cyclones ( )  
A) Forests B) deciduous forests C) coniferous forests D) mangrove forests
  - is the entering pollutants in the food chain ( )  
A) bio- magnification B) bio- degradation C) bio – accumulation D) biodiversity
  - Excess amount of fluorine in water causes ---
  - Chicken gunya is caused by — ( )  
A) bacterial B) virus C) fungus D) protozoa
  - State stands first place in our country in utilizing solar energy. ( )  
i) Andhra Pradesh ii) Gujarat iii) Telangana iv) Tamilnadu  
A) I & iii B) ii & iv C) ii D) All
  - The wild life act is come in to force from ----- year. ( )  
i) 1960 ii) 1970 iii) 1972 iv) 1963
  - It is our----- to protect our sacred places (responsibility)
  - million people die in India every year due to air and water pollution (One)
  - The non-renewable resources like Oil last for--- years, gas lasts for---- and Coal lasts for--- years consecutively  
A) 45, 252, 72 B) 252, 45, 72 C) 72, 252, 45 D) 45, 72, 252

## II .Very short answer questions

Marks : 1

1. What factors are including in environmentalism?
  - A. Environmentalism includes conservation of natural resources prevention and sustainable use of land.
2. What is meant by air pollution?
  - A. The presence of solid particles and liquid droplets in air beyond a certain limit is called air pollution.
3. How the spread of polio is prevented?
  - A. Polio can be prevented by oral vaccine called anti polio drops.
4. Mention the different types of Natural resources?
  - A. Renewable and Non renewable are the two types of Natural resources.
5. Name any two Natural resources.
  - A. Sand, coal, petrol, iron, diesel are some of Natural resources.
6. Why do people migrate to the towns and cities?
  - A. People migrate to towns and cities are called urbanization, reasons for urbanization is education, treatment and for earning.
7. What is meant by bio-magnification?
  - A. The tendency of pollutants to concentrate as they move from one tropic level to next tropic level is known as bio-magnification.
8. What are natural calamities (or) disasters?
  - A. Calamities due to natural causes like Earth quakes, cyclones, floods, tsunamis and eruption of volcanoes are natural calamities or natural disasters.
9. Write any two slogans on benefits of solar energy?
  - A. . Use solar energy – save electric energy.
  - B. Coal is the worst- solar is the best.
10. Write any two cottage industries in your surroundings?
  - A. Tailoring, Transport services, lace, etc.,
11. Write any proper water conservation method in your school.
  - A. Make it a habit to wash our hands near the trees, collect the rain water into the soaking pits.
12. What can we do to have insects in our surroundings and fields?
  - A. Spraying of pesticides will be minimized. Biological methods will be used to control pests.

## III Short answers questions

Marks : 2

1. What are the reasons for Global warming? And how to reduce effects of Global Warming?
  - A. Emissions from factories and chemical industries are responsible factors for global warming. The chloro flouro carbons which are used in air conditions, refrigerators, released into the atmosphere, burning of house hold wastes, plastic materials are also responsible for global warming. To reduce the Global warming Use eco friendly refrigerators, LED bulbs electronic chokes. Wastages should be changed into manure rather than burning. Use A.C and refrigerators in the months they required like in summer. Plantations should be developed. Deforestation should be stopped.
2. What are the effects of Aerosols?.
  - A. Solid particles and liquid droplets present in air are called particulate matter or aerosols. Aerosols prevent solar radiation from reaching the earth's surface and also heat to escape from the earth surface. This phenomena leads to Global warming. They absorb light and reduce visibility and cause various respiratory diseases.

3. What are the effects of Global warming?
- A. Global warming leads to increase in atmospheric temperature. Ice at the polar regions melt and the level of ocean may increase and it leads to drowning many cities on the globe. Sea water enters into rivers forming salt water lagoons. The water evaporated rains untimely rains. Draught conditions in some areas may form due to lack of water
4. What are the ways to save gas in houses?
- A.
- i) Put on the stove only after arranging all the things which are necessary for cooking .
  - ii) Use pressure cookers and kettles with lids only.
  - iii) Cook on Small burners it reduce the usage of gas.
  - iv) Milk or any other thing taken out from the refrigerator should not be heated immediately.
  - v) Use broad and low depth vessels.
5. How we reduce the use of fuels while travelling?
- i) Stop engines at traffic signals and traffic jams.
  - ii) It is better to travel by metro train or bus instead of personal vehicles.
  - iii) Use your own vehicle for family purpose only.
  - iv) If you want to go to market or other nearest place it is better to go by bicycle or walk..
6. What are the reasons for the decline of ground water?
- A . i) The usage of ground water by the human beings for domestic, agriculture and industrial in day by day increasing.
- ii) We drawing ground water from deeper layers of the soil and using it washing, flushing toilets and watering the plants.
  - iii) The water once used is going into drains.
  - iv) We are not following any method to recycle the water.
  - v) In agriculture also we are not following any method to conserving water.
7. Why should we harvesting rain water?
- A. Water is a very important precious natural resource. Wells, canals. Reservoirs oceans are depend upon rain. This water rained in rainy season should be used throughout year. To meet the needs of increasing population there is a pressure on ground water levels. So the rain water can be used to recharge the ground water. Rain water can be collected in large tanks, cisterns, reservoirs for future use. This is referred as rain water harvesting.
8. What are the 3 R, s explain them how they are help in control environmental degradation.
- A. The three 'R ' s are REDUCE , REUSE, and RECYCLE . Every one must reduce the waste and usage of natural resources. It gives a chance to remain the natural resources to the future generations. Reuse the materials again and again not use and throw. Recycle the materials like plastics etc will control the pollution.
9. What is the manner that we follow at the sacred places when we visit?
- B. When we visit any sacred places like temple, Mosque and Church we should not left our waste materials like paper plates, bottles, rappers , Covers, carry bags etc., . We should use

dustbins. We should not through such materials to water bodies like tanks and rivers near the sacred places. We should not spit spittoons of pan etc. We have to take a note to do the eco friendly activities only in those places.

10. Write about the domestic air pollution and its impact on health.
  - A. There are large number of households where fire wood , coal, etc are used as fuels in cooking area. Such areas are mostly congested and are without proper ventilation leading to accumulation of smoke and fumes. These are harmful to the eyes and the respiratory tract.
11. What are the impacts of low cost imports?
  - A. Toys, electrical fittings, batteries, electronic gadgets are Low cost imports. the low cost things increases the volume of their consumption which in turn leads to generation of larger amount of wastes due to their shorter life span .The colours which are used in food materials to the colours which are used in toys of the children are polluting the environment, and also hazardous to the health of individuals.
12. How would you appreciate the service of the rag pickers or trash collectors? What activities you are going to follow to express your concern towards them.
  - A. I can imagine the conditions of trash collectors do not collect regularly. Yes they are servicing us at the cost of their lives. It is our minimum responsibility to help them. We may provide those socks, gloves which helps them to collect dry and wet trash. This segregation will help the trash collectors, rag pickers to do their work easily.
13. What is green house effect?
  - A. The atmosphere transmit short wave solar radiation to earth. But reflect long wave heat radiation from warm surface of the earth. Green house gases are transparent to sunlight but not to the heat infra red radiation. The excessive presence of gases like CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O and CFC's block the infra red radiation from the earth's surface in the atmosphere. This leads to an increase in temperature. This phenomenon is called green house effect, the gases are called green house gases. Increasing the green house effect makes the life difficult.
14. What are the effects of depletion of ozone layer?
  - A. Ozone plays a vital role in maintaining the life on earth. It filters out all radiations below 3000 A<sup>0</sup> which are biologically harmful. Any large depletion of ozone content can therefore have catastrophic influence on all biological systems including plants. Chlorofluoro carbons used as aerosol propellants from blowing agents and refrigerants, A.C's , carbon monoxide, carbon dioxide from combustion, methane from agricultural , nitrogen oxides from aircrafts are causes to depletion of ozone layer. Depletion of ozone effects on crop yielding, phytoplankton, zooplankton, sensitive to small cells including bacteria, protozoa, nematodes, fish, birds, mammals and plants. The radiations forms skin cancers, effects retina in eye.
15. What is acid rain ? how it effects the environment.
  - A. Presence of excess acids in rain waters is called acid rain. It is the important global environment problem. The emissions like sulphur dioxide and nitric oxide dissolves in rain water and forms as acids and they rains on the earth. Fresh water reservoirs river water and lake water become acidic due to acid rains which damage fish and other components, ecosystems are influenced by the acid rains. Acid precipitation dissolve metals from soil, which form heavy metal toxicity. This in turn effects the food chain and food web.