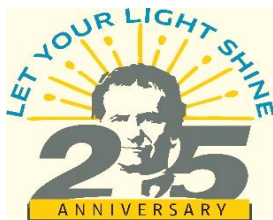


Don Bosco High School and Junior College, Naigaon (East)

Silver Jubilee Year



INTERSCHOOL QUIZ COMPETITION

ECO GUARDIANS 2024

As part of our Silver Jubilee celebration – ‘**Don Bosco Fiesta**’ we invite you to join us for an exciting **Interschool Quiz Competition** where we celebrate and test our knowledge as we focus on environmental stewardship.

Theme: **ENVIRONMENT / CURRENT AFFAIRS**

Date: **31 August 2024**

Time: **12.45 pm – 1.45 pm (Final round)**

Venue: **Don Bosco High School, School Hall.**

Participation: 1) Open to students from Std V to Std XII.

2) Each school can send one team comprising of 3 members.

The composition of students should be as follows:

1 student from Std V – VIII

2 students from Std IX - XII

Competition Format: The Quiz competition will be conducted only in English.

Preliminary round: Reporting time 9.30 am.

Final Quiz rounds: 1) Question Round

2) Visual Round

3) Activity round

4) Rapid fire round

4) Registration deadline: 10 August 2024.

Attached herewith is a question bank for the quiz. Please note that this list of questions is not comprehensive.

***To register, please fill in the required details and submit all Forms through the email ID that is attached herein – dbnsjubilee25@gmail.com**

***For further details or any kind of query, feel free to contact:**

Tr. Sarika D'Costa (9766954922)

Tr. Ankita Rodrigues (8806281202)

Email id: dbnsjubilee25@gmail.com

NOTE: All schools are requested to ensure they obtain a parental consent letter authorizing participation, photography, and videography.

NOTE: Students will represent their school in the school uniform with ID card. Students are advised to arrive at the venue at least 30 minutes before the event begins.

DON BOSCO HIGH SCHOOL & JR. COLLEGE NAIGAON (EAST)

QUESTIONNAIRE FOR QUIZ

SCIENCE AND TECHNOLOGY

1. Name the atmospheric layer that is completely cloudless and free of water vapour.
Answer: Thermosphere

2. The ozone layer or ozone shield is a region of Earth's atmosphere that absorbs most of the Sun's ultraviolet (UV) radiation. Which layer of the atmosphere contains ozone layer?
Answer: Stratosphere

3. The production of light by living beings is known as
Answer: Bio-luminescence

4. Which country is popularly known as 'land of the windmills'?
Answer: The Netherlands

5. Agrostology is the study of
Answer: Grasses

6. PVC is a very toxic form of plastic. What is the full form of PVC?
Answer: Polyvinyl chloride

7. With reference to Biological Oxygen Demand (BOD) and Chemical Oxygen Demand (COD), consider the following statements:
 1. BOD is a measurement of consumed oxygen by aquatic microorganisms to decompose organic matter.
 2. COD refers to the requirement of dissolved oxygen for the oxidation of organic constituents.Which of the statements given above is/are correct?
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2**Answer: a) 1 only BOD is a measurement of consumed oxygen by aquatic microorganisms to decompose organic matter.**

8. Which among the following are mechanical method of soil conservation?
 1. bunding
 2. terracing
 3. contour farming
 4. stubble mulchingSelect the correct Answer using the codes given below.
 - a) 1, 2 and 3 only
 - b) 1 ,3 and 4 only
 - c) 2 ,3 and 4 only

d) 1 ,2, and 4 only

Answer: a) 1, 2 and 3 only- bunding, terracing, contour farming

9. What is the largest organ of the human body that absorbs oxygen and releases carbon dioxide?

Answer: Skin

10. Which of the following is a way to conserve water?

a) Taking longer showers

b) Fixing leaky faucets

c) Using a hose to wash cars

d) Watering lawns daily

Answer: Fixing leaky faucets

11. Which of the following is a type of renewable energy source?

a) Coal

b) Oil

c) Solar

d) Natural Gas

Answer: Solar

12. Which of the following is a way to reduce waste?

a) Using single-use plastics

b) Recycling

c) Burning trash

d) Throwing away food scraps

Answer: Recycling

13. Which of the following is a consequence of deforestation?

a) Increased biodiversity

b) Improved air quality

c) Soil erosion

d) Increased rainfall

Answer: Soil erosion

14. What is the main cause of the increase in global temperatures over the past century?

Answer: Burning fossil fuels

15. Which of the following animals is an indicator species for water pollution?

a) Polar bear

b) Gray wolf

c) Bald eagle

d) Frog

Answer: Frog

16. Which of the following human activities leads to soil erosion?

a) Planting trees

b) Building dams

c) Over farming

d) Conserving water

Answer: Over farming

17. What is the process called when the Earth's natural resources are depleted at a rate faster than they can be replenished?

Answer: Overexploitation

18. Which greenhouse gas is the main contributor for global warming?

Answer: Carbon dioxide (CO₂)

19. Which of the following is a consequence of rising global temperatures?

a) Increased polar ice caps

b) Decreased sea levels

c) More frequent and severe heatwaves d) Reduced frequency of natural disasters

Answer: More frequent and severe heatwaves

20. Which of the following is a strategy for reducing carbon emissions?

- a) Carbon capture and storage b) Renewable energy sources
c) Increased fossil fuel production d) Deforestation

Answer: Renewable energy sources

21. Which of the following is a climate change impact on human health?

- a) Increased air quality
b) Reduced risk of heat-related illnesses
c) Increased risk of vector-borne diseases
d) Decreased risk of respiratory problems

Answer: Increased risk of vector-borne diseases

22. What is the term for the ability of ecosystems to absorb and recover from climate change impacts?

Answer: Resilience

23. Which of the following is a climate change impact on agriculture?

- a) Increased crop yields b) Improved soil fertility
c) Reduced water availability d) All of the above

Answer: Reduced water availability

24. What is the main cause of the increase in atmospheric carbon dioxide concentration?

Answer: Fossil fuel burning

25. What is the term for the process by which forests absorb carbon dioxide from the atmosphere?

Answer: Carbon sink

26. What is the name of the climate change impact that refers to the shift in the timing of seasonal events?

Answer: Phenological shift

27. Green Revolution has not materially affected the productivity of

- a) Wheat b) Rice c) Bajra

Answer: Bajra

PROTECTION OF ENVIRONMENT

1. Who coined the word 'ecology'?

Answer: Ernst Haeckel

2. Which of the following is not an endangered animal?

- a. Siberian tiger b. Loggerhead turtle c. The arctic fox.

Answer: The arctic fox

3. World Wetlands Day is observed on.

Answer: February 2

4. Name the largest freshwater lake in Northeast India.

Answer: Loktak Lake

5. The sangai is an endemic, rare and endangered subspecies of brow-antlered deer. In which state it is found?

Answer: Manipur

6. Which of these areas has been designated as the area with the greatest concentration of marine biodiversity on planet Earth?

- a. Raja Ampat, Indonesia
- b. Great Barrier Reef, Australia
- c. Andaman Islands, India
- d. Galapagos islands

Answer: Raja Ampat, Indonesia

7. Sick Building Syndrome (SBS) describes which phenomenon?

Answer: Indoor air pollution

8. What does UNEP stand for?

Answer: United Nations Environmental Programme

9. The headquarters of UNEP is at

Answer: Nairobi

10. Name the intergovernmental body under the auspices of the United Nations that shared the 2007 Nobel Peace Prize with Al Gore, former U.S. Vice President.

Answer: IPCC

11. Who was the Chairman of IPCC in 2007 when it was awarded Nobel Peace Prize?

Answer: RK Pachauri

12. Name India's first national park

- a. Manas National Park
- b. Gir Forest National Park
- c. Bandhavgarh National Park
- d. Hailey National Park

Answer: Hailey National Park

13. About how much of the world's land area is tropical rainforests?

Answer: 7 per cent

14. Around the North Pole of Earth, tiny electrically charged particles high in the atmosphere react with rays from the sun to create beautiful sheets of

light. These are called

Answer: Aurora Borealis

15. In ecological terms, what does the term “standing crop” signify?

Answer: Total weight of whole organic matter

16. Biofuels are fuels extracted from plants and crops and these have various advantages. These include

- a. increasing agricultural diversity.
- b. reduced use of fertilizers.
- c. renewable source of energy.

Answer: renewable source of energy.

17. Which among these would increase carbon dioxide in the atmosphere?

- a. deforestation
- b. burning of firewood
- c. automobiles
- d. All of the above

Answer: All of the above

18. The energy flow in an ecosystem is:

- 1. unidirectional
- 2. non-cyclic
- 3. cyclic
- 4. bidirectional

Select the correct Answer using the codes given below.

- a) 1 and 2 only
- b) 1 and 3 only
- c) 2 and 4 only
- d) 3 and 4 only

Answer: a) 1 and 2 only – unidirectional, non-cyclic

19. The Great Indian Bustard is a critically endangered species. Its population has been declining due to

- 1. habitat loss
- 2. frequent poaching
- 3. construction of windmills

Select the correct Answer using the codes given below.

- a) 1 only
- b) 1 and 2 only
- c) 2 only
- d) 1, 2 and 3

Answer: d) 1, 2 and 3 - habitat loss, frequent poaching, construction of windmills

20. The National Air Quality Monitoring Programme (NAMP) run by Central Pollution Control Board, monitors which of the following pollutants at all locations?

- 1. carbon dioxide

2. sulphur dioxide
3. oxides of nitrogen
4. suspended particulate matter

Select the correct Answer using the codes given below.

- a) 1, 2 and 3 only
- b) 1 ,3 and 4 only
- c) 2 ,3 and 4 only
- d) 1 ,2, and 4 only

Answer: c) 2 ,3 and 4 only - sulphur dioxide, oxides of nitrogen, suspended particulate matter

21. Which of the following Tiger reserves is/are also a National Park?

1. Manas
2. Indravati
3. Namdapha
4. Sariska

Select the correct Answer using the codes given below.

- a) 1,2 and 3 only
- b) 1,3 and 4 only
- c) 2,3 and 4 only
- d) 1,2,3 and 4

Answer: d) 1,2,3 and 4- Manas, Indravati, Namdapha, Sariska

22. Which of the following is a benefit of using public transportation or carpooling?

- a) Increased air pollution
- b) Increased greenhouse gas emissions
- c) Reduced traffic congestion
- d) Reduced carbon footprint

Answer: d) Reduced carbon footprint

23. Which was the first book that made people and society aware of a disaster that had hit our environment?

Answer: Silent springs

24. What is dispensed from the green pump and must be used if a car has a catalytic converter?

Answer: Unleaded petrol

25. Which of the following is a major cause of air pollution in urban areas of India?

- a) Agricultural activities
- b) Industrial emissions
- c) Solar power plants
- d) Recycling activities

Answer: Industrial emissions

26. India's first fully solar powered railway station:

Answer: Guwahati Railway station

27. Which river is known as the "Lifeline of Gujarat"?
- Answer: Narmada**
28. Which Indian state was the first to ban plastic bags?
- Answer: Sikkim**
29. Which is the largest mangrove forest area in India?
- Answer: Sunderbans**
30. Which region of India was declared as a UNESCO world heritage site in 2012?
- Answer: Western Ghats**
31. Which is the largest coastal lagoon in India?
- Answer: Lake Chilika**
32. How many GW of solar power capacity has India committed to achieve by 2022?
- Answer: 100 G W**
33. What is the target year set by India to achieve 500 GW of renewable energy capacity?
- Answer: 2030**
34. Which day is celebrated as Earth Day?
- Answer: 22nd April**
35. What was the theme for Earth Day 2024?
- Answer: Planet vs Plastic**
36. What is the total forest cover in India?
- Answer: 21.71% of India's geographical area (as per 2020 data)**
37. What is the name of, World's first national park?
- Answer: Yellowstone National Park**
38. Which city is known for having the worst air quality in India?
- Answer: New Delhi**

ENVIRONMENTAL LAWS AND PROJECTS

1. Project Tiger is a tiger conservation programme launched by the Government of India ensuring a viable population of Bengal tigers in their natural habitats and also to protect them from extinction. Which year it was launched?
- Answer : 1973**
2. Which state in India has got its own Wildlife Act and not covered under

Wildlife Protection Act, 1972?

Answer: Jammu and Kashmir

3. Which country ratified the Kyoto Protocol in late 2004 and thus caused it to become an international law?

Answer: Russia

4. Which of the following is/are have been provided for in the Wildlife Protection Act, 1972?

1. National Parks
2. Wildlife Sanctuaries
3. Biosphere Reserves

Select the correct Answer using the codes given below.

- a) 1 only
- b) 1 and 2 only
- c) 1 and 3 only
- d) 2 and 3 only

Answer: b) 1 and 2 only – National Parks, Wildlife Sanctuaries

5. What is the name of the international agreement aiming to limit global warming to well below 2°C and pursue efforts to limit it to 1.5°C?

Answer: Paris Agreement

6. What is the goal of the Paris Agreement on climate change?

Answer: To limit global warming to well below 2°C and pursue efforts to limit it to 1.5°C

7. The 'Chipko Movement' was primarily aimed at protecting which of the following?

Answer: Trees

8. What is the main purpose of the 'National Green Tribunal' in India?

Answer: To handle environmental protection and conservation

9. The 'Ganga Action Plan' was launched in which year?

Answer: 1985

10. In which year did the Indian government introduce the 'National Action Plan on Climate Change'?

Answer: 2008

11. The government of India launched the 'Clean India Mission' (Swachh Bharat Abhiyan) in in which year?

Answer: 2nd October 2014

12. What is the National Clean Air Programme (NCAP) and what is its primary goal?

Answer: The NCAP is an initiative by the Indian government aiming to reduce air pollution levels by 20-30% by 2024.

13. Which international agreement is India a part of that commits the country to reducing carbon emissions and increasing the use of renewable energy?

Answer: The Paris Agreement

14. Which scheme promotes solar energy usage among farmers by providing financial assistance for setting up solar pumps?

Answer: The Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM) scheme.

15. Which international treaty was formed for the conservation and sustainable use of wetlands?

Answer: Ramsar Convention.

16. What is the name of the government initiative to reduce air pollution in Indian cities?

Answer: National Clean Air Programme (NCAP)

17. What is the name of India's environmental protection act?

Answer: Environment (Protection) Act, 1986

18. Which ministry is responsible for environmental protection in India?

Answer: Ministry of Environment, Forest and Climate Change (MoEFCC)

19. What is the name of India's sustainable development goals initiative?

Answer: Sustainable Development Goals (SDGs) India Index

ENVIRONMENTAL ACTIVIST

1. Who is often referred to as the "Father of the Indian Environmental Movement" for his role in saving the Silent Valley from being turned into a hydroelectric project?

Answer: The Kerala Sastra Sahitya Parishad (KSSP) an NGO, and the poet-activist Sughathakumari

2. Which teenage environmental activist is known for starting the "Fridays for Future" movement?

Answer: Greta Thunberg

3. Who won the Nobel Peace Prize in 2004 for her contribution to sustainable development, democracy, and peace, and is known for founding the Green Belt Movement in Kenya?

Answer: Wangari Maathai

4. Which American marine biologist and conservationist wrote the influential book "Silent Spring," which is credited with advancing the global environmental movement?

Answer: Rachel Carson's

5. Who is the Indian environmental activist known for her work in the Chipko movement, where villagers hugged trees to prevent them from being cut down?

Answer: Gaura Devi

6. Which Brazilian environmentalist was awarded the Goldman Environmental Prize in 2023 for her efforts to protect the Amazon rainforest and the rights of indigenous peoples?

Answer: Alessandra Korap Munduruku

7. Who is the former Vice President of the United States known for his work on climate change, including the documentary "An Inconvenient Truth"?

Answer: Vice President Al Gore

8. Which British primatologist and anthropologist is known for her work with chimpanzees and her advocacy for animal rights and environmental conservation?

Answer: Jane Goodall

9. Who is the Australian environmentalist and television personality known as "The Crocodile Hunter," who was an advocate for wildlife conservation?

Answer: Stephen Robert Irwin

10. Which Indian social activist is known for her work in promoting traditional organic farming methods and opposing genetically modified crops?

Answer: Vandana Shiva

SPORTS

1. What is the Paris 2024 Olympic Games' approach to sustainability?

Answer: The Paris 2024 Olympic Games aim to be the most sustainable Games ever, with a focus on reducing carbon emissions, waste, and water usage.

2. How will the 2024 Olympics reduce carbon emissions?

Answer: The 2024 Olympics will reduce carbon emissions by using existing venues, promoting public transportation, and using renewable energy sources.

3. What is the "Zero Waste" goal of the Paris 2024 Olympics?

Answer: The "Zero Waste" goal aims to minimize waste by reducing single-use plastics, recycling, and reusing materials.

4. How will the 2024 Olympics address water conservation?

Answer: The 2024 Olympics will implement water-saving measures, such as rainwater harvesting and efficient irrigation systems.

5. How will the 2024 Olympics promote sustainable transportation?

Answer: The 2024 Olympics will encourage the use of public transportation, walking, and cycling, and provide incentives for athletes and spectators to use eco-friendly transportation options.

6. How will the 2024 Olympics measure and report its carbon footprint?

Answer: The 2024 Olympics will use a robust carbon footprint measurement and reporting system to track and disclose its greenhouse gas emissions.