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The South Africa Bill of Rights states that everyone has the right to an environment that is not harmful to their health or well-being, to have the environment protected, for the benefit of present and future generations, through reasonable legislative and other measures.

Question 1

- 1.1. Which human right is protected in the SA Constitution - Bill of Rights protect? (1)
- 1.2. List 2 ways how people and communities working together with organisations that care for the environment play a vital role in caring for the environment. (2)



- 1.3. On which date is **Earth Day** Celebrated each year? (1)
- 1.4. What is celebrated on Earth Day? (1)
- 1.5. List 2 ways of what we can do to be kinder to the earth. (2)

Question 2

South Africa produces 470 million tons of waste a year. Each person produces almost 2kg of domestic waste **A DAY**. Most of this waste is dumped and buried in landfill or waste dump sites. This causes precious resources to be wasted and the physical state of many of the landfill sites create **HUGE** environmental problems, as well as **HEALTH** problems for those living close by. This situation is totally unacceptable and unsustainable.

- 2.1. Look at the pictures numbered 1-3 above and identify at least two health environmental challenges. (6)
- 2.2. Look at picture 4. Elaborate on the idea of burning waste at dump sites. (2)

Question 3

- 3.1 When waste is not properly managed, it causes **pollution**. These harms our environment, affects plants and animals and can cause health problems for people as diseases are spread. The more people there are, the more impact there is on the world's resources such as space, food, water and the more waste we produce.



- 3.2 Give a definition for recycling. (2)
- 3.3 Investigate the term e-waste and elaborate what it means. Provide three examples of e waste and indicate how it can impact negatively on the environment. (5)
- 3.4 Calculate the total weight for all the waste collected. Indicate the amount received per item and how much the family received at a recycled Company? (8)

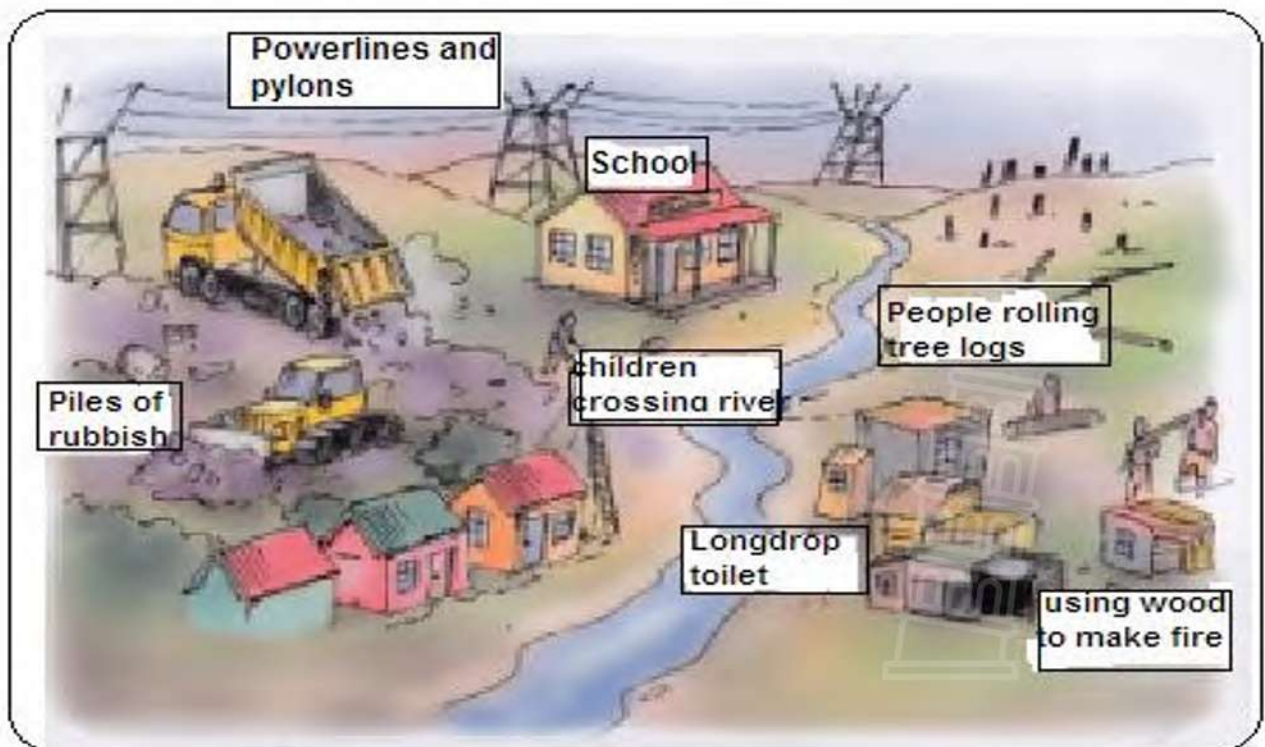


Waste collected by a family:

- 16 kg White paper: R 2 per kg
- 25 green glass bottles: R1 per kg
- 10 kg of cardboard boxes: 56 c per kg
- 25 kg of aluminium cans (240 ml): R8 per kg
- 20 kg newspapers: 0.40c per kg
- 14 kg of plastic bottles: R 7.20 per kg

Question 4

Critically analyse the following scenario below that impacts negatively on the environment.



(Via Afrika, LB.p.137)

Develop and implement an environmental health programme.

- 4.1 Identify the environmental issues in this community. (5)
- 4.2 Develop an action plan and identify the people that will be responsible to solve

these challenges. (5)

4.3 Suggest possible solutions for each condition. (5)

4.4 Create an A4 poster using pictures from **magazines, newspapers** focusing on images that demonstrate how we can **support unhealthy environments** to become healthy again. Use **10 pictures** and create a **collage** demonstrating the theme: **Solutions for a healthy environment.** (10)

Question 5

Collect **10 recyclable items** used at your home and create a marketable item that you can sell. Complete the information sheet that must be submitted with your project. (15)

Total 70 marks



Question 1

1.1 Which human right is protected in the SA Constitution- Bill of Rights?

We have the right to live in a healthy environment (1)

1.2. List 2 ways how people and communities working together with organisations that care for the environment play a vital role in caring for the environment.

- report companies who break environmental laws to the authorities
- run information campaigns in their communities
- send letters and petitions to the government about matters that to environmental health, etc. (2)

1.3. On which date is **Earth Day** Celebrated each year? **22 April** (1)

1.4. What is celebrated on Earth Day?

People all over the world show their support for the preservation of the environment, with special environmental activities each year. (1)

(Oxford Headstart, LB. p.102 Act.1)

1.5. List 2 ways of what we can do to be kinder to the earth.

Save water & electricity

Stop pollution

Recycle and re-use

Plant tree

Build a community food garden

Make your own vegetable and herb garden/compost

Paint a mural at school/or at the community centre to encourage environmental Awareness.

Organise a community/school clean-up.

Plant a tree or indigenous plants etc. (any 2 or relevant answers) (2)

Total for Question 1 (7 marks)

Question 2

2.1. Look at the pictures numbered 1-3 above and identify at least two challenges that you can identify.

Picture 1

Focus – Deforestation of environment/ no trees

Air pollution/ water pollution

At the end of 2035 there will be no environment left, only a beautiful picture to remember. (2)

Picture 2

Factories causing air pollution, animal life in water are at high risk due to water pollution. (2)

Picture 3

Plastic is a major crisis in the environment and should be banned. (2)



2.2. Look at picture 4. Elaborate on the idea to burn waste at dump sites as solution.

Picture 4

To burn waste is causing more health risks for humans as poisonous gasses are released. It can cause respiratory challenges/ chronic conditions. (2)

Total for question 2 (8 marks)

Question 3

3.1 When waste is not properly managed, it causes **pollution**. These harms our environment, affects plants and animals and can cause health problems for people as diseases are spread. The more people there are, the more impact there is on the world's resources such as space, food, water and the more waste we produce.

3.2 Give a definition for recycling. (2)

Recycling is the process of converting waste materials into new materials and objects.

3.3 Investigate the term e waste and elaborate what it means. Provide four examples of e waste and indicate how it can impact negatively on the environment.

Definition

E-waste describes electronic products and equipment that have reached the end of their life cycle or have lost value to their current owners. (1)

Examples of E-waste

TVs, batteries, computer monitors, printers, scanners, keyboards, mice, cables, circuit boards, lamps, clocks, flashlight, calculators, cell phones, answering machines, digital/video cameras, radios, VCRs, DVD players, MP3 and CD players. Any household appliances. (3)

Impact on the environment

E-waste may contain valuable material like copper, platinum or harmful materials that can contaminate groundwater when not recycled that will have an impact on humans and animal life
Burning material at dumping sites that are not recycled has toxic gasses that can impact negatively on respiratory systems of humans and animals. (1)

3.4 Calculate the total weight for all the waste collected. Indicate the amount received per item and how much the family received at a recycled Company?

16 kg of white paper.	R32
25 kg of green glass bottles.	R25
10 kg of cardboard boxes	R 5.60
24 kg of aluminium cans	R 192

20 kg of newspaper	R 8	
14 kg of plastic bottles	R 100.80	
Total;	R 439.40	(8)

Total for question 3 (18 marks)

Question 4

Develop and implement an environmental health programme.

Critically analyse the following scenario below that impacts on the environment.

- Identify the environmental issues in this community (5)
- Develop an action plan and identify the people that will be responsible to solve these challenges. (5)
- Suggest possible solutions for each condition. (5)

	Unhealthy environmental conditions	Who will be responsible for it?	Possible solution.
1.	Power lines and pylons	ESKOM(Government) Local municipality Community	Government: should supply sustainable energy resources (e.g., wind turbines) etc. Municipality should control safety in communities.
2.	Piles of rubbish: Toxic waste	Community Local municipality	Efficient responsible waste managements: more landfill sites
3.	Long drop toilets: Cause the contamination of groundwater	Community Local municipality Local government	Government should supply infrastructure for flush toilets.
4.	Using wood to make fire, causes air pollution and is a destructive energy resource	Community Local municipality	The use of more sustainable alternate energy sources: gas, electricity, etc.
5.	Children crossing the river that is contaminated by the long drop toilets and piles of rubbish in the area and causes diseases.	Community and poor infrastructure. Local municipality Local government	Better sewage and waste management in area by the local government also at schools and in the community. Better planning of townships/settlements.
	5 marks	5 marks	5 marks
	Total :	15 marks	

(Solutions for all, LB. p. 230)

- Create an A4 poster using pictures from magazines, newspapers focusing on images that demonstrate how we can support unhealthy environments to become healthy again. Use 10 pictures and create a collage demonstrating the theme:

Solutions for a healthy environment.

Assessment criteria

Used 15 appropriate pictures focusing on solutions for a healthy environment.	15 marks (1 mark per picture) It must be appropriate solutions and not challenges.
A4 paper size is used	1 mark
Magazine, newspaper pictures were used	1 mark
Theme of poster is evident	1 mark
Creative ways used and observed	1 mark
Format is a collage	1 mark
Total: 20	20÷2 = 10 marks

10

Total for question 4 (25 marks)

Question 5

Collect at least any **10 items** used at your home that you can recycle and create a **marketable item** that you can sell. Complete the following **information sheet** that must be submitted with your project. (15)

Question 6		
6.1 Indicate the 10 recyclable items that you have used to create something useful that you can sell as marketable object.		
1	6	
2	7	
3	8	
4	9	
5	10	(10)
Question 6.2		
Give you creative marketable object a name.		(1)

Question 6.3		
Indicate at least 4 different materials that you have used to create your item.		
1	3	
2	4	
		Total : 15 marks

Total 70 marks

