



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF COMMERCE, HUMAN SCIENCE AND EDUCATION

DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING (DTVET)

QUALIFICATION: DIPLOMA IN TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING : TRAINER	
QUALIFICATION CODE: 06DTVT	LEVEL: 6
COURSE CODE: ESB620S	COURSE NAME: EDUCATION FOR SUSTAINABLE DEVELOPMENT B
SESSION: JANUARY 2025	PAPER: 2
DURATION: 3 HOURS	MARKS: 100

SECOND OPPORTUNITY EXAMINATION QUESTION PAPER

EXAMINER(S)	Mr Benhardt U Kauteza
MODERATOR:	Mrs Charlene Kaereho

INSTRUCTIONS

1. This paper consists of 2 sections (A and B) with a combination of 6 questions.
2. All the questions are compulsory.
3. Read all questions carefully before answering.
4. Number your answers clearly.
5. Make sure your student number appears on the answering script provided.

PERMISSIBLE MATERIALS

1. Examination paper.
2. Examination script.

THIS QUESTION PAPER CONSISTS OF 5 PAGES EXCLUDING THIS COVER PAGE

SECTION A: MULTIPLE CHOICE QUESTIONS

[10 MARKS]

QUESTION 1 - Short Questions [10]

Question 1 consists of 10 multiple choice questions. For each question there are four possible answers **a, b, c and d**. Choose the one you consider correct. Just write the question number and the letter of your choice. E.g., **1. d**.

1.1 Which of the following is a major way human activities through technology impact the fragility of the physical environment?

- a. Increased reliance on renewable energy
- b. Over-extraction of natural resources
- c. Sustainable agricultural practices
- d. Preservation of biodiversity

1.2 Reorienting Education for Sustainable Development (ESD) requires broad actions in all of the following areas EXCEPT:

- a. Integrating environmental issues across all subjects
- b. Focusing only on technological advancements for economic growth
- c. Promoting lifelong learning for sustainability
- d. Strengthening local and global partnerships for sustainability education

1.3 Which of the following is a key obligation of international entities in promoting sustainable development?

- a. Imposing strict sanctions on developing nations
- b. Providing technical assistance and funding to support sustainability projects
- c. Promoting unsustainable economic growth in resource-rich areas
- d. Encouraging businesses to maximize profits without regard for environmental impact

1.4 Which of the following is an essential skill objective of Education for Sustainable Development?

- a. Learning how to maximize resource exploitation
- b. Developing the ability to critically assess sustainability challenges
- c. Promoting disregard for future generations' needs
- d. Fostering competition over collaborative problem-solving

1.5 Which of the following is a consequence of unsustainable technological development on the physical environment?

- a. Decreased air pollution
- b. Increased biodiversity
- c. Depletion of natural resources
- d. Improved soil quality

1.6 One of the key actions needed to reorient Education for Sustainable Development is:

- a. Focusing solely on environmental education without addressing social or economic issues
- b. Incorporating sustainability across disciplines, including science, economics, and humanities
- c. Promoting economic growth at the expense of environmental protection
- d. Ignoring cultural diversity in sustainability education

1.7 What is one of the obligations of businesses in supporting sustainable development?

- a. Maximizing short-term profits with no consideration for long-term impacts
- b. Investing in sustainable technologies and practices
- c. Ignoring international environmental standards
- d. Prioritizing non-renewable energy sources

1.8 Which of the following knowledge objectives is central to Education for Sustainable Development?

- a. Understanding the interdependence between economic growth and natural resource depletion
- b. Learning only about the economic benefits of sustainable development
- c. Focusing solely on technological innovation without considering environmental impacts
- d. Ignoring the role of ethics in decision-making related to sustainability

1.9 Which of the following technological developments is most likely to mitigate environmental fragility?

- a. Fossil fuel-based energy production
- b. Industrial-scale deforestation
- c. Development of renewable energy sources
- d. Expansion of plastic manufacturing

1.10 Which of the following is a critical action to promote Education for Sustainable Development?

- a. Focusing on short-term economic solutions only
- b. Promoting awareness of social, environmental, and economic dimensions of sustainability
- c. Isolating sustainability education from mainstream educational systems
- d. Limiting sustainability education to higher education institutions only

SECTION B: STRUCTURED QUESTIONS

[90 MARKS]

QUESTION 1 - Education for Sustainable Development (ESD) related concepts [20]

- 1.** Write short notes demonstrating your understanding of the following Education for Sustainable Development (ESD) related concepts:

1.1 Greenhouse (4)

1.2 Greenhouse Effect (4)

1.3 Climate Change (4)

1.4 Global Warming (4)

1.5 Ozone Layer (4)

QUESTION 2 - Human activities, Resources and Physical Environment in ESD [20]

- 2.1** Explain two ways in which industrialisation has contributed to environmental degradation. Provide examples in your response. (6)
- 2.2** "Technology is both a solution and a problem for environmental sustainability." Discuss any four positive and any three negative impacts of technology on environmental sustainability and give relevant examples for each statement. (14)

QUESTION 3 - Actions to reorient Education for Sustainable Development [20]

- 3.1** Define Education for Sustainable Development (ESD) and explain its importance in today's world. (10)
- 3.2** What is the role of teachers/trainers in promoting Education for Sustainable Development? (5)

3.3 Give two examples of how ESD can be applied in a school's daily operations. (5)

QUESTION 4 - Rights and Responsibilities in ESD [20]

4. A local community is experiencing increased pollution due to nearby industrial activity. As an individual, what steps would you take to address the issue?

In your response, discuss the following:

4.1 Your actions in terms of your rights and obligations. (5)

4.2 The steps you would take to address the issue at hand. (15)

QUESTION 5 - Education for Sustainable Development across the Curriculum [10]

5. Explain the concept of Education for Sustainable Development (ESD) and its relevance in the TVET space. Provide two examples of how ESD principles can be integrated into a TVET curriculum. (10)

[End of Paper]

TOTAL MARKS:100