UNAM
UNIVERSITY OF NAMIBIA

FACULTY	**FACULTY OF EDUCATION**		
DEPARTMENT	**DEPARTMENT OF INTERMEDIATE AND VOCATIONAL EDUCATION**		
SUBJECT	**HOME ECOLOGY 2B**		
SUBJECT CODE	**E3622IH**		
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DURATION	**3 HOURS**	**MARKS**	**100**

FIRST OPPORTUNITY EXAMINATION PAPER

Examiner: DR. M. SHEYAPO

Moderator: Ms. M. //NAOBES

This examination paper consists of 7 pages, including this front page.

Instructions

1. Write neatly and legibly.
2. Number your answers correctly and clearly.
3. While most of the marks will be awarded for content, candidates must bear in mind the importance of presentation, i.e. insight and critical thinking.
4. Answer **all** questions in section A, B and C; there are no optional questions.

SECTION A: SHORT ANSWER QUESTIONS /30/

QUESTION 1 (5)

Match each term in Column (A) with its correct description in Column (B). Write the letter of the correct description next to the number of the corresponding term. E.g. 11. A

1.1 Sedimentation	A. These are the basic properties of a work of art that may be perceived through the senses.
1.2 Water Conservation	B. Is a water purification process that removes ions, unwanted molecules and larger particles from drinking water using a partially permeable membrane.
1.3 Art Elements	C. The process of exchanging stale indoor air with fresh and clean outdoor air to keep your home comfortable
1.4 Reverse osmosis	D. A reduction in water use accomplished by the implementation of water efficiency measures
1.5 Household Ventilation	E. A process of removing solids that lie at the bottom of the surface through gravity.

QUESTION 2 (10)

Study the statement below and state whether they are true or false

2.1 Electricity is a renewable energy source. (1)

2.2 LPG is not stored and transported in a liquefied form. (1)

2.3 Water filtration can remove phosphorus, nitrate and heavy metal ions. (1)

2.4 Kerosene is a non-renewable energy source. (1)

2.5 Ethanol is a product of biogas. (1)

2.6 Lines and shapes are part of the art principles. (1)

2.7 White and grey are called primary colours. (1)

2.8 Firewood is a renewable biomass. (1)

2.9 Biogas is a sustainable household source of energy. (1)

2.10 Ethanol is a renewable household energy source. (1)

QUESTION 3 **(10)**

Study descriptions of colour concepts below and choose the correct answer. Only write down the question number and the correct option (letter) next to it. E.g. 3.1 A

3..1 These are primary colours (1)

A. Black and white
B. Blue and Red
C. Green and purple
D. Grey and white

3.2 Secondary colour (1)

A. Red, yellow and blue
B. Green, purple and orange
C. Black, white and grey
D. Orange, green and blue

3.3 Tertiary colours (1)

A. A primary plus a secondary
B. Two secondary combined
C. Green, orange and melon
D. A combination of black and white

3.4 Neutral colours (1)

A. Grey, red and white
B. Blue, green and red
C. Grey, black and white
D. Black and white

3.5 Complementary colours (1)

A. All four colours are spaced evenly around the colour circle.
B. Colours opposite each other on the colour wheel
C. Colors adjacent to its complement
D. Colours next to each other on the colour wheel

3.6 Analogue colours (1)

A. Colours next to each other on the colour wheel
B. Colours adjacent to its complement
C. Colours opposite each other
D. Colours opposite to each other.

3.7 Triadic colours (1)

A. Colours that are evenly spaced around the colour wheel.
B. Four colours adjacent to its complement
C. Six colours adjacent to its complement
D. Colours next to each other

3.8 Split-complementary colours (1)

A. Four colours arranged into two complementary pairs
B. Two colours adjacent to their complements.
C. Colours that are evenly spaced around their complementary
D. Colours opposite each other on the colour wheel

3.9 Tetradic colours (1)

A. Colours opposite each other on the colour wheel
B. Four colours arranged into two complementary pairs
C. Two colours arranged into two supplementary pairs
D. Colours that are evenly spaced around their complementary

3.10 Square colours (1)

A. Colours that are evenly spaced around the colour wheel
B. Four colours are spaced evenly around the colour circle.
C. Colours that are evenly spaced around their complementary
D. Colours opposite each other on the colour wheel.

QUESTION 4 **(5)**

4.1 Identify the following firefighting equipment



A. .....(1)



B. ..... (1)



C. .....(1)



D. .....(1)



E .....(1)

SECTION B: STRUCTURED QUESTIONS /40/

QUESTION 5

5.1 Firewood is a common source of household fuel. Give five points to critically analyse the health and environmental impact of using firewood as a household fuel. (5x2=10)

5.2 Most water purification methods have limitations. State two limitations of each water purification method below: (5x2=10)

i. Filtration
ii. Chlorination
iii. Distillation
iv. Boiling
v. Decantation and Sedimentation

5.3 Ergonomics is very important to all members of the household. Discuss atleast five points to evaluate the importance of learning about household work (ergonomics). Focus your discussions on what ergonomics mean and justify why understanding and applying it is important in the context of household work. (5x2=10)

5.4 Critically discuss atleast five safety precautions that should be followed to prevent accidents or injuries when using paraffin or ethanol as household fuels. (5x2=10)

SECTION C: ESSAY TYPE /30/

QUESTION 6

Many people tend to neglect household cleaning, not realising its importance. Write a short essay to justify why it is essential to maintain a clean home environment. Focus your essay on the importance and beneficial to the health and well-being of household members. (15)

i. Introduction (2)
ii. Body (10)
iii. Conclusion (3)

6.2 Water is a scarce and costly household commodity, and it is important for every household member to play a role in conserving it. As a Home Ecology teacher, write a short speech to advise your learners on ways to conserve water in the household. Discuss at least five practical ways to conserve water at home. (5X3=15)

Your speech must:

- Be directed at your learners.
- Clearly explain and /or give examples how each method helps save water.

TOTAL MARKS **/100/**