



2ND SEM. 2006/2007

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : DIPLOMA IN HOME ECONOMICS
EDUCATION AND HOME
ECONOMICS YEAR III**

COURSE CODE : FRHD 303

TITLE OF PAPER : HOME TECHNOLOGY

TIME ALLOWED : TWO (2) HOURS

**INSTRUCTIONS : ANSWER QUESTION ONE (1)
AND ANY OTHER (2) QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1

1.1 Compile a list of the basic problems often associated with the following appliances in modern homes namely:

- i) Electrical irons (dry or steam)
- ii) Blenders
- iii) Vacuum cleaners

What step will you take to solve those problems? 30

1.2. Discuss with the aids of a neat and labelled diagram the natural water cycle and the process of treating water which are necessary before supplying this water to buildings. 10

[Total marks=40]

QUESTION 2

2.1 Write brief notes on the origin and use of solid, liquid and gaseous fuel. 12

2.2 "It is very important to know how to select and buy equipment for the home"
Discuss this assertion with a list of guidelines for decision making. 14

2.3 Explain the following terms:
Voltage and wattage
General purpose and individual circuits 4

[Total marks=30]

QUESTION 3

3.1 When and why air condition systems required? Describe the operation of air condition. 15

3.2 With the aid of neat annotated sketches explain how electricity is generated in a fossil fuel power station and distributed to consumer. 15

[Total marks=30]

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QUESTION 4

4.1 With the help of diagram describe three type of fuses, stating the application and the advantages and disadvantages of each type.

[Total marks=30]