

1ST SEM, 2009/2010



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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN HOME ECONOMICS
EDUCATION AND HOME ECONOMICS
YEAR III**

COURSE CODE: FRHD 301

TITLE OF PAPER: HOUSEHOLD TECHNOLOGY

TIME ALLOWED: TWO (2) HOURS

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

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE
CHIEF INVIGILATOR.**

QUESTION 1

a. Comment on the following guidelines for selecting appliances that best fit your needs.

- i. Find out as much as possible about the piece of equipment before you buy it. (7)
- ii. Know the relationship between price and quality. (4)
- iii. Consider situation and needs. (4)
- iv. Judge the appliance in terms of how easy it is to use and care for. (4)
- v. Buy from a reliable dealer (4)

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b. Household Appliances normally have name-plates attached to them.

- i. What information is given on the name-plate?
- ii. Explain how each piece of information given in b(i) would be useful to a homemaker. (8)

c. Most technological appliances use electricity. Name and discuss the three types of electrical circuits used in homes. (9)

[Total Marks 40]

QUESTION 2

a. A pressure cooker is one household appliance that can be utilized in homes that have electricity and those that do not have electricity.

- i. Discuss how a pressure cooker operates. (4)
- ii. What are the functions of the following parts of a pressure cooker:
 - Safety valve
 - Control valve
 - Locking lid
 - Gasket
 - Trivet
 - Pressure gauge (6)

ii. What are the advantages of pressure cooking? State four. (4)

iv. State six (6) points one would consider when using a pressure cooker (6)

b. Homes without electricity can use a wonderbox (haybox) to save on fuel used during the cooking of food.

- i. Discuss how a wonderbox (haybox) function. (2)
- ii. State three (3) advantages and two (2) disadvantages of a wonderbox. (5)
- iii. What measures would you take to maintain your wonderbox? (3)

[Total Marks 30]

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FRHD 301**QUESTION 3**

- a. A microwave oven is an appliance found in most modern kitchens. Briefly explain the function of each of the following parts of a microwave:
- The magnetron
 - The mode stirrer
 - The guide
 - The auto-sensor
 - The microprocessor
 - The indicator panel
 - Quartz grill
- (7)
- b. Comment on the use of the following containers in a microwave oven:
- Plastic
 - Metal foil
 - Melamine ware
- (5)
- c. State nine (9) advantages and three (3) disadvantages of microwave cooking. (12)
- d. Differentiate between an extractor fan and a cooker hood. (6)

[Total Marks 30]

QUESTION 4

- a. Some household technological gadgets use batteries for their power supply. What dangers are posed by improper disposal of used batteries? (3)
- b. Discuss problems associated with E-waste disposal. (10)
- c. Why are Persistent toxic substances (PTSs) a major concern at local, national and global level? (5)
- d. E-waste is regulated by The Basel Convention on the control of transboundary movement of hazardous waste and their disposal (1989). Discuss the factors that weaken the management of E-waste. (5)
- e. China is one country that has engaged extensively on the management of E-waste disposal through recycling. What are the major concerns raised by environmentalists on these recycling activities? (3)
- f. What measures are taken by environmentally conscious companies on **material selection** and **packaging** of their products? (4)

[Total marks 30]