

2nd SEM. 2006/2007



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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : BACHELOR OF SCIENCE IN FOOD
SCIENCE, NUTRITION AND
TECHNOLOGY YEAR V**

COURSE CODE : FST 509

**TITLE OF PAPER : FOOD PACKAGING AND
TRANSPORTATION**

TIME ALLOWED : TWO (2) HOURS

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

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

Question 1

- a. Write notes on the importance of transportation in food supply and distribution.
[10 marks]
- b. Describe the design, condition and loading method of transport equipment used in the transportation of tropical fresh fruit and vegetables.
[30 marks]
- [Total marks = 40]**

Question 2

- a. Describe the positive and negative attributes of using metal in food packaging.
[20 marks]
- b. Write notes on any **ONE** of the following types of metallic food cans, citing typical examples of foods associated with each respective package:
- a. Two-piece can;
 - b. Three-piece can.
- [10 marks]
- [Total marks = 30]**

Question 3

Write notes on the following types of plastics used in packaging, citing typical examples of commercial food products associated with the type of packages:

- a) Polypropylene (PP) [10 marks]
 - b) Polyethylene (PE) [10 marks]
 - c) High Density Polyethylene (HDPE) [10 marks]
- [Total marks = 30]**

Question 4

- a. Explain the advantages of aseptic packaging, citing typical examples of foods associated with this type of (packaging) system. [15 marks]
- b. Describe the main requirements of the general food labeling regulations on packages. [10 marks]
- c. Explain the three rules for packers. [5 marks]

[Total marks = 30]