

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF APPLIED SCIENCES**

**DEPARTMENT OF ENVIRONMENTAL SCIENCE AND HEALTH**

**FINAL EXAMINATION**

**ENVIRONMENTAL PORT HEALTH: EPH 2007**

**July 2012**

**Time Allowed: 3 hours**

**Total Marks: 100**

**INSTRUCTIONS:**

**Answer any FOUR questions. Each question carries 25 marks.**

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**Question 1**

With reference to Port Health services:

- a) Discuss the different branches/facets of Port Health Services (10 marks)
- b) Scope of Zimbabwe's Port Health Services and the current legislative framework. (10 marks)
- c) Challenges within the Zimbabwean Port Health Services (5 marks)

**Question 2**

With reference to the International Health Regulations

- a) Outline the major differences between the IHR and the International Sanitary Regulations. (12 marks)
- b) Discuss the concept of Public Health events of international concern and these are covered within the national legislative framework. (8 marks)
- c) The role of Port Health services in implementing the provisions of IHR (5 marks)

**Question 3**

Briefly discuss the import procedure for special cargo including the following:

- a) Key considerations for the Port Health Officer
- b) Legislative framework governing importation of special cargo
- c) Challenges a PHO may face in the importation of special cargo (25 marks)

#### **Question 4**

Discuss the following:

- a) Systems of certification (8 marks)
- b) Benefits of 3<sup>rd</sup> Party certification (12 marks)
- c) The possible weakness of certification of food imports as a regulatory measure. (5 marks)

#### **Question 5**

Discuss food labelling with reference to:

- a) Functions of food labelling (10 marks)
- b) Open date and good labelling regulations in Zimbabwe (8 marks)
- c) Implications of open date and labelling regulations of food importation (7 marks)

#### **Question 6**

- a) Discuss the factors that affect the growth of micro organisms in food and how these are applied in food preservation. (18 marks)
- b) Several factors have contributed to an increase in food importations. As a Port Health Officer, what measures would you institute to ensure that imported food reaches the consumer in a wholesome state? (7 marks)

**End of paper**

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**SUPPLEMENTARY EXAMINATION**

**ENVIRONMENTAL PORT HEALTH: EPH 2007**

**March 2013**

**Time Allowed: 3 hours**

**Total Marks: 100**

**INSTRUCTIONS:**

**Answer any FOUR questions. Each question carries 25 marks.**

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**Question 1**

- a) Compare and contrast sanitary and phyto sanitary measures and technical barriers to trade. (12 marks)
- b) Codex food safety provisions recognised by both SPS and TBTs and the implications on food safety and quality. (8 marks)
- c) Challenges a Port Health Officer may face with regards to ensuring non-violation of TBTs. (5 marks)

**Question 2**

- a) Using an example discuss how you would use HACCP as a risk management technique in food quality. (18 marks)
- b) Outline the benefits of using HACCP in enhancing food safety (7 marks)

**Question 3**

Zimbabwe has taken a stance to prevent the influx of genetically modified foods into the country. Develop a risk communication strategy to inform key stakeholders on GMOs. Your communication strategy should include elements of the following:

- a) intended target of the communications
- b) preferred communication methods
- c) Key messages to be addressed

What challenge do you envisage in developing this communication strategy?

#### **Question 4**

Discuss food sampling with particular emphasis on

- a)Types of samples (10 marks)
- b)development of a sampling plan (5 marks)
- c)the concepts of buyer's risk and producer's risk and their implication on design of sampling plans. (6 marks)
- d)Challenges the Port Health Officer may face in sampling (4 marks)

#### **Question 5**

Discuss:

- a)Food adulteration (9 marks)
- b)falsely described food (9 marks)
- c)Measures a Port Health Officer can institute to safeguard the nation from importation of falsely described and adulterated foods. (7 marks)

#### **Question 6**

Discuss Port Health services in the context of the following:

- a)scope of Port Health Services (13 marks)
- b)the policy and legal framework governing them (12 marks)

**End of paper**