



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

HFN 417: NUTRITION IN EMERGENCIES

DATE: Tuesday, 29th March 2011

TIME: 2.00 p.m. – 4.00 p.m.

INSTRUCTIONS

Answer ALL questions in the answer booklet provided.

1. (a) Explain the rationale for conducting nutrition surveys in emergency situations. **[10 marks]**
- (b) Explain how the findings of nutrition surveys are used, stating the potential would be users of such information. **[6 marks]**
- (c) State the nutritional status reflected by each of the following: **[10 marks]**
 - (i) Weight-for-height – 2.9 Z scores and absence of oedema for the underfives
 - (ii) Weight-for-height 65% of the median and absence of oedema for underfives
 - (iii) Weight-for-height 83.0% of the median and presence of oedema for underfives
 - (iv) MUAC 13.9 cm for underfives and absence of oedema
 - (v) MUAC 23.9 for pregnant women
 - (vi) BMI 17.8 for lactating women
 - (vii) MUAC 11.3 for underfives
 - (viii) BMI 28.5 lactating women
 - (ix) MUAC 21.5 cm for pregnant women
 - (x) Weight-for-height –2.2 Z scores and presence of oedema for underfives

- (d) Interpret (based on the WHO guidelines) the nutrition situations demonstrated by the following global acute malnutrition (GAM) rates:
- (i) 4.7% [95% CI: 3.2 – 8.3]
 - (ii) 13.5% [95% CI: 10.2 – 15.7]
 - (iii) 18.9% [95% CI: 15.6 – 21.2]
 - (iv) 34.5% [95% CI: 31.4 – 39.2] **[4 marks]**
2. You work as a nutritionist for an NGO dealing with relief operation in Mandera district where there has been severer famine because of prolonged drought.
- (a) Suggest three types of malnutrition which the majority of children underfive years of age are likely to be suffering from. **[3 marks]**
 - (b) Suggest one nutrition intervention that would have an immediate impact on the nutritional status of the malnourished children. Discuss its benefits and limitations. **[7 marks]**
 - (c) Suggest five other interventions (not nutritional in nature) that may also need to be put into place to help improve the nutritional status of the people. **[5 marks]**
 - (d) Giving reasons, state five population sub-groups likely to be most affected by the famine. **[5 marks]**
3. (a) Discuss the role of the Sphere Standards 2004 in the management of nutrition responses in Emergency situations. **[8 marks]**
- (b) Differentiate between the following: **[8 marks]**
- (i) Targeted and Blanket supplementary feeding programmes
 - (ii) Percent of the Median and Z – scores as used in the measuring nutritional status
 - (iii) Supplementary feeding programmes and Therapeutic feeding programmes
- (c) Why is weight-for-height the most appropriate index for determining nutritional status of children underfive years of age in emergency situations? **[4 marks]**

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