

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2014/2015**

**YEAR 3 SEMESTER II EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION**

**AFN 2302: NUTRITION SURVEYS**

**DATE: APRIL 2015 TIME: 2 HOURS**

**Instructions: Answer All Questions in Section A and Any Other Two Questions in Section B**

**SECTION A (30 MARKS)**

1. Differentiate between precision and design effect in Nutrition surveys (4marks)
2. Distinguish between slow onset and rapid onset emergency situations giving examples. (6marks)
3. Outline any four sources of secondary information in a nutrition survey. (4marks)
4. Outline why current nutrition survey practice does not advocate for mixing anthropometry indicators alongside mortality, food security and infant and young child feeding indicators in the same survey as was the case. (4marks)
5. Part of training for nutrition survey enumerators requires that the enumerators are trained on appropriate use of anthropometric equipment. What would you consider as possible errors associated with length and height measurements (5marks)
6. In a survey, the expected prevalence of malnutrition is 20%, the required precision is 4% and error risk 5%. What sample size would you require if doing a cluster survey? (Assume design effect is unknown) (7marks)

**SECTION B (40 MARKS)**

1. You have been awarded a consultancy by Concern Worldwide to lead a nutrition survey process in Marsabit County. Describe the main activities you will focus on day one upon landing in Marsabit? At what point as the survey progresses, will you be required to hold a discussion with stakeholders. What will be the main content of your discussion with community and local authority leaders? (20marks)
2. Carefully study the table below and answer the questions that follow

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Wilaya | Village/Daira | TOT-POP\* | UNDER 5 POP | CUMULATIVE POP | CLUSTER ALLOCATION | CLUSTER NUMBER |
| DAKHLA | Oum drega  El argoub  A-in-ri-Beida  Bir-N’Zazare  Boudjour  Gleibatt-el Fould  J’reifia | 6170  5853  5710  5423  5224  4946  4679 | 1111  1054  1028  976  940  890  842 | 1111  2165  3192  4168  5109  5999  6841 |  |  |
| EL-AAION | Hagounia  Daoura  Bou-Craa  D’Cheira  Amgala  Guetta | 6589  6597  6283  6209  5346  5481 | 1186  1187  1131  1118  962  987 | 8027  9215  10346  11463  12426  13412 |  |  |
| AOUSSERD | Tichla  Lagovera  Bir-Gendouz  Mijeu  Aghovenit  Zoug | 6212  6285  5201  5120  5094  4562 | 1118  1131  936  922  917  821 | 14530  15662  16598  17519  18436  19258 |  |  |
| SMARA | Farsia  Haouza  J’Deria  Tifariti  Bir Lahlou  Mahbes  Lunza | 7554  7369  7268  6480  5249  5590  2160 | 1360  1326  1308  1166  945  1006  389 | 20617  21944  23252  24418  25363  26369  26758 |  |  |
| TOTAL |  | 148,654 | 26,758 | 26,758 |  |  |

\*Estimated population based on UNHCR data

1. Allocate the 30 clusters and cluster numbers using the information provided from Daira Village (show your work) (17marks)
2. What will be the total number of under 2 years children in Daira Village? (3marks)
3. Discuss the timing elements, ethical considerations and rationale for targeting children under 5 years in a nutrition survey? (20marks)