

**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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**University Examinations 2014/2015**

SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN FOOD SCIENCE AND NUTRITION

**AFN 3277: NUTRITION EPIDEMILOGY**

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

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Define the following terms:
2. Nutrition epidemiology
3. Epidemic
4. Incidence
5. Agent
6. Carrier (4 Marks)
7. State the aims of epidemiology (5 Marks)
8. State examples of
9. Communicable diseases
10. Environmental contaminants
11. Occupational contaminants (6 Marks)
12. Briefly explain three broad patterns of disease incidence (6 Marks)
13. Explain advantages of descriptive studies (4 Marks)
14. Describe the major challenges in nutrition epidemiology (5 Marks)

**QUESTION TWO (20 MARKS)**

1. Explain the following agents:
2. Nutritive elements
3. Chemical agents
4. Physical agents
5. Infectious agents (10 Marks)
6. Explain these special surveys
7. Census
8. Sample surveys
9. Project information
10. Pregnancy history (10 Marks)

**QUESTION THREE (20 MARKS)**

1. Explain the sources of bias in morbidity and mortality data (10 Marks)
2. In a school of 200 girls with 100 prevalence pregnancy =50%. The girls underwent a screening test and the results are:

Sensitivity of 95%

Specificity of 98%

Required: Draw a two by two table (10 Marks)

|  |  |  |  |
| --- | --- | --- | --- |
|  | +ve | -ve | Total |
| +ve | 95 | ? | 97 |
| -ve | ? | 98 | ? |
| Total | ? | ? | 200 |

**QUESTION FOUR (20 MARKS)**

1. Differentiate between retrospective and prospective studies (10 Marks)
2. Explain the UNICEF conceptual frame work in reference to Rickets (10 Marks)