

**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Agriculture – 2007 Admission – IV<sup>th</sup> Semester**  
**Final Examination - July/August 2009**

Cat.No. : Hmsec 2201

Course : Food and Nutrition (1+1)

Max. marks: 80

Time : 3 hours

**I. Answer all the questions**

(10X1=10)

**a) Fill up blanks**

- 1) \_\_\_\_\_ is the precursor of niacin.
- 2) \_\_\_\_\_ nutrient helps in the absorption of iron.
- 3) Pregnant woman requires \_\_\_\_\_ of protein.

**b) Write True or False**

- 4) Moon face is seen in Protein Energy Malnutrition among children.
- 5) Vitamin E is known as antineurotic factor
- 6) Pernicious anaemia is due to deficiency of cyanocobalamine

**c) Match the following**

- |                      |   |                          |
|----------------------|---|--------------------------|
| 7) Fortification     | - | a. Food born disease     |
| 8) Contamination     | - | b. Vitamins and minerals |
| 9) Fish liver oil    | - | c. Salt                  |
| 10) Protective foods | - | d. Vitamin A             |

**II) Answer any TEN of the following**

(10X3=30)

- 1) Write the functions of the foods.
- 2) Write the classification of carbohydrates.
- 3) What are the food born diseases and measures to prevent it ?
- 4) Explain the functions of one National Nutrition programme in India.
- 5) Write the factors for obesity.
- 6) Explain the role of vitamin A in vision.
- 7) Write about the increased RDA for an expectant mother and why?
- 8) Define adulteration. Explain the types of adulteration.
- 9) Write about the need for the Food Security.
- 10) Describe the clinical symptoms of Flourine deficiency.
- 11) What are the clinical symptoms of anaemia and list four foods rich in Iron?
- 12) Differentiate fortification and enrichment.

**III) Write any SIX of the following**

(6X5=30)

- 1) How will you assess the nutritional status of school children?
- 2) Write about the Toxicants naturally occurring in foods.

- 3) What are the factors affecting food habits? Mention the changes in the food habits of adolescent groups in Kerala.
- 4) Discuss the measures taken by the government to prevent the adulteration of food by the trade.
- 5) Write about Protein Energy Malnutrition among children.
- 6) Highlight the importance of trace minerals in human nutrition.
- 7) How foods are contaminated and measures to prevent it.
- 8) Explain the digestion and absorption of Fats.

IV) Answer any ONE of the following

(1X10=10)

- 1) Explain in detail about the nutrition intervention programme for vulnerable groups.
- 2) Critically examine Vitamin B deficiency.