

Chittagong Veterinary and Animal Sciences University

Dept. of Applied Food Science and Nutrition

MS in Applied Human Nutrition and Dietetics

July-December Semester, 2017

Course Name: Nutritional Problems, Survey and Surveillance, Course Code: NPS – 502

Full Marks: 40, Time: 2 hours

*Answer any Four (04) Questions from listed below. Figures in the right margin indicate full marks. Split answer is strongly discouraged.*

1. a) Give the definition of nutritional problem. 02  
b) Mention the causes of nutritional problem in context of our country. 02  
c) Discuss in details about the measures to solve these nutritional problems. 06
2. a) Summarize the concept of severely acute malnutrition and global acute malnutrition. 03  
b) How does hidden hunger jeopardize the economic development of a country? 05  
c) What do you mean by nutrition transition? 02
3. a) Briefly describe the different types of sampling methods used in data collection. 04  
b) Differentiate between Nutritional survey and surveillance. 03  
c) Make a list of purposes of doing nutritional survey and surveillance. 03
4. a) Explain about different types of quantitative dietary survey methods. 05  
b) What is Food Balance Sheet? Enumerate the advantages and limitations of food balance sheet. 02+03
5. a) In recent years, people of our country are facing double burden of malnutrition. As a nutritionist, state your comments to overcome these problems. 05  
b) Define Standard deviation score. In what way you can measure the weight of an infant? 02+03

**MS in Applied Human Nutrition and Dietetics**

**July-December Semester Final Examination-2017**

**Course Title: Advanced Dietetics**

**Course Code: ADD-502**

**Full Marks:40**

**Time: 2 hours**

**Answer any four questions. Figures in the right margin indicate full marks**

1. What do you mean by Eating disorders? List out the types of eating disorders and explain the Bulimia Nervosa and Binge eating disorder. 1+2+7
2. Define Biotransformation, Pharmacodynamics, Pharmacogenomics & Pharmacokinetics. Write down the Benefits of minimizing drug-nutrient interactions. Relate the effects of drugs on nutrition? 2+2+6
3. Categorize the Enteral formula. Give the composition of Enteral formula. Summarize the conditions that often require nutrition support 2+4+4
4. Define Meal planning. Why meal planning is important in developing countries? What factors should be consider in selecting foods for meal planning. 2+5+3
5. List out the common problems among premature infants. Design pathophysiology algorithm and nutrition support of premature infants. Explain different feeding methods of preterm infant. 2+4+4

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MS in Applied Human Nutrition and Dietetics

July-December Semester, 2017

Course Name: Nutrition in Emergencies, Course Code: NUE – 502

Full Marks: 40, Time: 2 hours

*Answer any Four (04) Questions from listed below. Figures in the right margin indicate full marks. Split answer is strongly discouraged.*

1. a) Define Nutritional Emergency. 02  
b) Point out its causes in context of our country. 02  
c) Draw and elaborately discuss the conceptual framework of malnutrition according to UNICEF. 06
2. a) Give an account of historical perspective of disaster occurrences in Bangladesh. 05  
b) Briefly discuss the role of nutritional, health and socioeconomic data on early warning system in a country to mitigate adverse situation of disaster. 05
3. a) What do you mean by disaster management? 02  
b) Mention the name of emergency feeding programs currently existing in Bangladesh. 02  
c) Explain in details about the General Food Distribution and Vulnerable Group Feeding Program to prevent malnutrition among refugees. 06
4. a) What types of macro and micronutrient deficiencies are usually occurred during any food crisis situation? State your opinion as a Nutrition Officer to overcome this situation. 2+4  
b) Discuss the role of Government and Non-Government organizations in monitoring and evaluation of nutritional emergency situation. 04
5. Write down short notes on the following topics~ 5X2  
a) Assessment of nutritional status of refugee people during emergency situation.  
b) Therapeutic Feeding Program for PEM children.

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July-December Semester, 2017

Course Name: Advanced Micronutrients, Course Code: ADM – 502

Full Marks: 40, Time: 2 hours

*Answer any Four (04) Questions from listed below. Figures in the right margin indicate full marks. Split answer is strongly discouraged.*

1. a) Give a brief description of Vitamin, its food sources and classification. 05  
b) Explain in details about the digestion and absorption of Vitamin A in our body. 05
2. a) Discuss about the biochemical functions of Vitamin as a coenzyme in different metabolic pathway. 05  
b) Write down about the clinical manifestations of scurvy and beriberi. 05
3. a) Define mineral with their content in the body. 05  
b) Narrate down about the role of fiber in absorption and excretion of minerals. 05
4. a) Differentiate between osteoporosis and osteomalacia. 02  
b) List out the biochemical functions of minerals as cofactors. 04  
c) Mention the RDA of Iron, Ca, Iodine, Vitamin A, Vitamin B<sub>1</sub>, Vitamin B<sub>2</sub> and Vitamin C for a pregnant woman throughout her gestational period. Why these above micronutrients are essential for a pregnant woman? 3+1
5. Write down short notes on the following topics~ 5X2  
a) Toxic effects of heavy metals in human body. .  
b) Antioxidant

**MS in Applied Human Nutrition and Dietetics**

**July-December Semester Final Examination-2017**

**Course Title: Evidence Based Management of Public Health Program**

**Course Code: EMP -502**

**Full Marks:40**

**Time: 2 hours**

**Answer any four questions. Figures in the right margin indicate full marks**

1. Define program Evaluation. Why we evaluate public health program? Distinguish Principles of Research and Evaluation. 2+2+6
2. Write down the characteristics of Good Evaluator. Explain the six steps of Framework 2+8
3. What do you mean by Evaluation process?" Evaluation as a Three-Act Play". Justify the statement. Give the roles of an evaluator in a public health evaluation process. 2+5+3
4. Write down the elements of the Rational-Decision-Making model. How do you develop questions for your evaluation? Give the outline of appropriate oversight of quality assurance and evaluation 2+5+3
5. List out the components of comprehensive program and logical model. Design a Childhood Lead Poisoning Prevention(CLPP) logic model program with inputs and outputs. 5+5

**MS in Applied Human Nutrition and Dietetics**

**July-December Semester Final Examination-2017**

**Course Title: Medical Nutrition Therapy**

**Course Code: MNT -502**

**Full Marks:40**

**Time: 2 hours**

**Answer any four questions. Figures in the right margin indicate full marks**

1. What do you mean by Metabolic disorder and galactosemia? Illustrate the management of disorders of CHO metabolism. Draw the pathophysiology algorithm of phenylketonuria. 2+5+3
2. Define Cancer cachexia, Ageusia, Carcinogen. Draw the pathophysiology algorithm of carcinogenesis. Give the dietary guidelines for cancer patient. 2+3+5
3. How does hyperlipidemia lead to atherosclerosis? Illustrate the Fredrickson classification of hyperlipidemias. 3+7
4. Define azotemia, dialysate, GFR and EPO. Enlist the renal diseases and Explain ARF ,Renal stones 4+6
5. What is the DASH diet all about? Give the risk factors for developing hypertension. Construct the pathophysiology flow diagram of hypertension. 2+2+6

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July- December Final Examination, 2016

Course Name: Nutrition in Emergencies

Course Code: NUE-502

Full Marks: 40, Time: 2 hours

Answer any Four (4) questions from the listed below

1. a) Define Nutritional Emergency. 2
- b) What are the causes of Nutritional Emergency in our country? 3
- c) Give an account of historical perspectives of the disaster situation in context of Bangladesh. 5
2. a) Discuss the role of nutritional, health and socioeconomic data on early warning. 5
- b) Draw and narrate the framework for disaster relief-needs assessment. 5
3. a) What is disaster management? 2
- b) Enumerate the role of a Nutritionist in Disaster Management. 3
- c) Outline a design of a nutrition intervention program in a community. 5
4. a) List out the name of different types of emergency feeding program. 2
- b) Give a summary of General Food distribution and Therapeutic Feeding. 3+3
- c) What types of nutrient deficiencies may be occurred during emergency? 2
5. a) How do you can assess nutritional status of mass people during emergency? 3
- b) Describe the role of government and non – government organization in mitigating nutrient deficiency in a disaster prone area. 7