

MS in Applied Human Nutrition and Dietetics

July-December Semester Final Examination-2018

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. a) What do you mean by health, fitness and well-being? 3
b) Discuss the Factors that contribute to a person's current state of health. 3
c) How is good nutrition related to health promotion and disease prevention? 4
2. a) How are anthropometric measurement used in assessment of nutritional status? 3
b) Why is physical appearance important? Explain the Aesthetic growth measurement. 3+4
3. a) Differentiate between calorie and Calorie. Summarize the Components of Energy Requirements. 2+3
b) Outline the Energy Requirements methods used by dietitian. 5
4. a) Why we calculate the nutrient content of foods? Characterize the Criteria for a comprehensive food composition database. 1+3
b) What is cooking conversion factor? Explain Bariatric surgery and Pharmacotherapy management of obesity. 2+4
5. a) Why eating disorders are classified as mental illnesses? Illustrate the Binge Eating Disorder, Avoidant/Restrictive Food Intake Disorder and Rumination Disorder with their management. 1+4
b) Write down the Benefits of minimizing drug-nutrient interactions. Relate the effects of drugs on nutrition? 1+4

Chittagong Veterinary and Animal Sciences University
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July-December Semester Final, 2018

Course: Nutrition in Emergencies

Course Code: NUE-502

Full Marks: 40

Time: 2 hours

Answer any four from the followings

1. a) A child of 24 months of age is suffering from malnutrition in Africa. How will you assess his nutritional status? 4
- b) Suppose you are assigned as a health worker in Africa where Xerophthalmia has indicated as a medical emergency. What treatment will you provide to treat Xerophthalmia? 6
2. a) Mention the names of the catastrophic disaster occurring in BD. What are the probable causes of disaster recurring in Bangladesh? 4
- b) Define CBDRR. What kind of community-based approaches is available in Bangladesh to reduce vulnerability towards climatic disasters? 6
3. a) Describe comprehensive disaster preparedness strategy for disaster management. 7
- b) What do you mean by early warning? Discuss about ongoing disaster mitigation practice in Bangladesh. 3
4. a) Interpret a decision chart for the implementation of selective feeding program. 4
- b) Write a short note on- 6
 - I. Vulnerable group feeding program
 - II. Scurvy
 - III. CPP
5. a) Define survey. Write down the steps for planning the rapid nutritional survey? 5
- b) What steps should be followed for ensuring fair distribution of general dry ration? 5

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July – December Semester Final, 2018

Course: Advanced Micronutrient

Course Code: ADN-502

Full Marks: 40 Time: 2 hours

Answer any four from the followings.

1. a) What is vitamin D and why does the body need it? 3
- b) Which groups are at risk of a vitamin D undersupply? What are the consequences of a vitamin D deficiency? 3
- c) Describe the relationship among Calcium, Vitamin D and Bone Health. 4
2. a) Write the generic roles of vitamins and minerals. 3
- b) Describe the role of vitamin B₂ in amino acid and carbohydrate metabolism. 3
- c) Which vitamins act as antioxidants? Explain their role. 4
3. a) What is the sodium-potassium pump? How does it work? Which body organ system depends on sodium-potassium pumps to function? 5
- b) What do you mean by hypokalemia? Explain its consequences. 5
4. a) Write the electrolyte composition of body fluids. 5
- b) What does high sodium indicate? How does Hypernatremia affect the brain? 5
5. a) What is the biological importance of Zinc? Write the distribution of Zn in the human body. 5
- b) Describe the daily allowances, properties and biochemical actions of Vitamin B₁₂. 5

MS in Applied Human Nutrition and Dietetics

July-December Semester Final Examination-2018

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. How do you identify liver problems? Name the possible causes and treatment of various types of liver disease. Describe the association of between liver disease and malnutrition. 2+3+5
2. Name the classes of human insulin and analogues and describe the method of action of each. Illustrate the components of medical nutrition therapy for type 1 and type 2 DM. 5+5
3. Relate the pathophysiology of hyperlipidemia to the progression of cardiovascular disease. Describe the role of genetics and dietary modification in the prevention and treatment of cardiovascular disease. 5+5
4. Enlist the renal diseases and outline the nutritional requirements and dietary modifications associated in acute and chronic renal disease. 4+6
5. What does inborn error of metabolism mean? Give the risk factors for developing hypertension. Construct the pathophysiology flow diagram of hypertension. 2+2+6

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July – December Semester Final, 2018

Course: Nutritional Problems, Survey and Surveillance

Course Code: NPS-502

Full Marks: 40 Time: 2 hours

Answer any four from the followings.

1. a) What are the common nutritional problems in Bangladesh? 2
- b) What do you mean by Moderate Acute Malnutrition (MAM), Severe Acute Malnutrition (SAM) and Global Acute Malnutrition (GAM)? 3
- c) According to your opinion what could be the preventive and social measures to reduce malnutrition rate? 5
2. a) What is nutrition transition? Discuss the nutrition transition and its impact on human health. 5
- b) Define hidden hunger? What are the causes of the situation? Sketch the consequences of micronutrient deficiencies throughout the life cycle. 5
3. a) What is the purpose of using the chi square test in analyzing nutritional data? Explain it with an example. 3
- b) Define nutritional surveillance. Differentiate between nutritional survey and surveillance with their purpose. 5
- c) What do you mean by RRA technique? 2
4. a) Write the indicators of anthropometric indices. 6
- b) What do you mean by z-score? Classification of nutritional status according to Z-Score. 4
5. a) Write the methods used for measuring the food consumption of individual. 4
- b) What is food balance sheet? Sketch an outline of food balance sheet with its advantages and disadvantages. 6