

**MS in Applied Human Nutrition and Dietetics**  
**July-December Semester Final Examination-2022**

**Course Title: Nutritional Problems, Survey and Surveillance**

**Course Code: NPS -502**

**Full Marks: 40**

**Time: 2 hours**

Answer any **four (4)** questions. Figures in the right margin indicate full marks. **Split answer is strictly discouraged.**

1. a) Define Malnutrition. Illustrate the scenario of nutritional problem in Bangladesh. 1+4
- b) What is Obesity and Overweight? how you identify overweight and obesity at different age people? explain 2+3
2. a) What are the policies taken by WHO to reduce dental caries 3
- b) Write down some key broad strategy for Salt Reduction 3
- c) Define Double burden and Hidden hunger. 2+2
3. a) Define Nutritional Anthropometry? What are the building blocks of anthropometry indices? Explain. 1+4
- b) What is standard score? Explain some feature of Standard score. 2+3
4. a) What is nutrition transition? Describe the patterns of nutrition transition. 1+3
- b) Demonstrate the strategies taken by transnational food companies to encourage consumption of process food. 4
- c) Discuss the systematic sampling technique. 2
5. a) Differentiate Survey and Surveillance. 3
- b) Write down the different types of nutritional surveillance. 3
- c) Classify different dietary survey method with example 4

**MS in Applied Human Nutrition and Dietetics**  
**July-December Semester Final Examination-2022**

**Course Title: Nutrition in Emergencies**

**Course Code: NUE -502**

**Full Marks: 40**

**Time: 2 hours**

**Answer any 4 (four) questions. Figures in the right margin indicate full marks**

1. a) Define Nutritional Emergency. What are the causes of nutritional emergencies in our country 04  
b) Write down the situation of disaster in Bangladesh 06
2. a) Define monitoring and evaluation. Write down the steps of monitoring and evaluation 08  
b) Enlist the causes of monitoring and evaluation during emergency 02
3. Classify the feeding program. Write down the management of different feeding program 10
4. a) Define nutritional survey. Explain the steps involved in a nutritional survey 05  
b) Describe the role of government and non-government organizations in mitigating nutrient deficiency in a disaster-prone area 05
5. a) Define nutritional relief. Write down the food storage problem during relief. 05  
b) What is an early warning system? Briefly describe the disaster model of Bangladesh 05



**Chattogram Veterinary and Animal Sciences University**  
**MS in Applied Human Nutrition and Dietetics**

**July-December Semester Final, 2022**

**Course: Advanced Micronutrient**

**Course Code: ADN-502**

**Full Marks: 40      Time: 2 hours**

Answer any **four (4)** questions. Figures in the right margin indicate full marks. **Split answer is strictly discouraged.**

1. a) Explain the factors influencing Ca absorption. 5  
b) Which vitamin requires cobalt for its activity? Sketch absorption, transportation, and storage of vitamin B<sub>12</sub>. 1+4
  
2. a) Vitamin D is a hormone, justify its status as a hormone. 3  
b) Explain the absorption and transportation of vitamin A. 4  
c) How Vitamin D helps in absorption of Calcium. 3
  
3. a) Define Minerals. Write down NAD<sup>+</sup> dependent enzyme. 1+3  
b) Describe Niacin deficiency. 3  
c) Shortly explain Calcium homeostasis. 3
  
4. a) Identify the role of Riboflavin as co-enzyme. 4  
b) Write a short note on any three- 3×2
  - I. Folate trap.
  - II. Biotin antagonists.
  - III. Vitamin K in carboxylation.
  
5. a) Explain the Mucosal Block Theory for Fe<sup>2+</sup> absorption. 5  
b) What are the deficiency manifestations of vitamin A? 5



**Chattogram Veterinary and Animal Sciences University**  
**MS in Applied Human Nutrition and Dietetics**

**July-December Semester Final, 2022**

**Course: Advanced Dietetics**

**Course Code: ADD-502**

**Full Marks: 40      Time: 2 hours**

Answer any **four (4)** questions. Figures in the right margin indicate full marks. **Split answer is strictly discouraged.**

1. a) What is hemolytic anemia. Give an algorithm of causes, pathology, and management of iron deficiency anemia. 1+4  
b) Discuss on morphologic classification of anemia. 5
2. a) Enumerate the types of modification of normal diet. Differentiate between seasonal foods and out of season foods. 4+2  
b) Explain modifications for different disease condition. 4
3. a) Classify eating disorders and write down its side effects? 2+3  
b) Describe the mechanisms of food taken with drug (any five). 5
4. a) Define enteral nutrition. Write down the categories of enteral formula. 4  
b) Write a short note on any three- 3×2
  - I. Refeeding syndrome.
  - II. Types of drug interaction.
  - III. Bioavailability of iron.
5. a) Discuss on nutritional management for preterm infant through PN. 6  
b) Define Apgar score. Summarize infant's protein requirement for Enteral Nutrition. 4



**MS in Applied Human Nutrition and Dietetics**

**July-December Semester Final Examination-2022**

**Course Title: Evidence-Based Management of Public Health Programs**

**Course Code: EMP -502**

**Full Marks: 40**

**Time: 2 hours**

Answer any **four (4)** questions. Figures in the right margin indicate full marks. **Split answer is strictly discouraged.**

1. a) Define Evidence. List some source of evidence used in public health 1+1  
b) Classify the types of scientific evidence for public health. 3  
c) Distinguish the different scientific evidence according to their characteristics. 5
2. a) Define Evidence based public health. 1  
b) Describe the main characteristics of Evidence based decision making. 4  
c) Generalized the analytical tools for evidence based public health program. 5
3. a) What is research and Evaluation 1+1  
b) Differentiate the principle of research and evaluation 5  
c) Write down the characteristics of a good evaluator 3
4. a) Name the steps in evaluation framework according to CDC 2  
b) Explain the components that's need to follow during describing the program for evaluation. 4  
c) What is Quasi experimental design? When it is appropriate to use? 4
5. a) What is Propensity score matching (PSM)? Describe the steps that are following during PSM. 1+3  
b) Dramatize the advantage and disadvantage of PSM 3  
c) How economic evaluation was done in public health program? 3

**MS in Applied Human Nutrition and Dietetics**  
**July-December Semester Final Examination-2022**  
**Course Title: Medical Nutrition Therapy**  
**Course Code: MNT-502**  
**Full Marks: 40**                      **Time: 2 hours**

**Answer any 4 (four) questions. Figures in the right margin indicate full marks**

1. a) What is diabetes mellitus? Shortly describe the sign, symptoms, and management of diabetes mellitus 07  
b) Distinguish between Crohn's disease and ulcerative colitis 03
2. a) What are the difference between maldigestion and malabsorption 03  
b) Shortly describe the sign, symptoms, and nutritional management of fatty liver disease 07
3. a) What is diabetes mellitus? Shortly describe the sign, symptoms, and management of diabetes mellitus 07  
b) Distinguish between Crohn's disease and ulcerative colitis 03
4. a) Define phenylketonuria. Write down the sign, symptoms, and management of phenylketonuria 05  
b) Write down the short note on : Celiac disease, steatorrhea. 05
5. a) Write down the etiology and management of renal disease 06  
b) Illustrate the sign, and symptoms of galactosemia, Wilson's disease. 04