Chattogram Veterinary and Animal Sciences University

MS in Applied Human Nutrition and Dietetics

July-December Semester Final, 2023

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) Explain diet modification in specific diseases with example.   5

   b) What do you mean by Qualitative modification of diet? List the factors you will keep in mind while making a tiffin for school going children.   5

2. a) Why Eating Disorders became a global concern? What are the types of eating disorders.   5

   b) Explain the treatment and complication associated with of eating disorders.   5

3. a) Define drug interaction. Give an account of Food, Nutrient, and Drug Interactions. (Any 4)   5

   b) Explain Parenteral feeding for premature infant.   5

4. a) Categories the enteral formula.   4

   b) Write a short note on any three-   3×2

      I. Osteoporosis

      II. Characteristics of a balanced diet

      III. Weaning pattern for an infant

      IV. Transpyloric feeding

5. a) What criteria are used for Parenteral feeding. What constituents are present in parenteral nutrition solution.   6

   b) Explain Refeeding syndrome.   4

MS in Applied Human Nutrition and Dietetics
July-December Semester Final Examination-2023
Course Title: Nutrition in Emergencies
Course Code: NUE-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 indicators are used to assess the nutritional status of children aged 6-59 months?   4

   b) Summarize the clinical signs and symptoms of micronutrient deficiencies.   6

2. a) Discuss operational system strategy during an emergency.   6

   b) A careful storage and handling can minimize waste, explain.   4

3. a) Define nutritional relief. Write down the food storage problem during relief.   5

   b) What is an early warning system? Briefly describe the disaster model of Bangladesh.   5

4. a) Define nutritional emergency. What are the causes of nutritional emergencies?   2+3=5
   b) Give an account of historical perspectives of the disaster situation in context of Bangladesh.   5

5. a) What is disaster management? Enumerate the role of nutritionist in disaster management.   5

   b) Outline the design of a nutrition intervention program in a community.   5

MS in Applied Human Nutrition and Dietetics
July-December Semester Final Examination-2023
Course Title: Medical Nutrition Therapy
Course Code: MNT-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) Differentiate between gastritis and ulcer. Enlist the diagnosis examination of ulceration. 3

   b) How do *Helicobacter pylori* cause gastric ulcers in humans? 3

   c) Construct the mode of action pathway of proton pump inhibitors and Bismuth subsalicylate 4

2. a) What is the DASH diet? Enlist the risk factors for developing hypertension. 4

   b) Illustrate the pathophysiology of hypertension. 6

3. a) Distinguish between rheumatoid arthritis and gout. Design the pathophysiology of rheumatoid arthritis. 6

   b) Does exercise aggravate arthritis? Describe the dietary management and exercise for arthritic patients. 4

4. a) Discuss the etiology and management of renal disease. 6

   b) Write down a short note on: Celiac disease, steatorrhea 4

5. a) Shortly discuss the pathophysiology of food allergy and its dietary management. 5

   b) Illustrate the symptoms, causes, risk factors, and complications of GERD. 5

MS in Applied Human Nutrition and Dietetics
July-December Semester Final Examination-2023
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 world scenario of Malnutrition. 1+3

   b) What is hidden hunger? Briefly summarize the pattern and trends of South Asia's hidden hunger. 1+5

2. a) What are the risk factors for dental caries? 2

   b) Write down some misperceptions about Salt Reduction. 3

   c) What is Obesity and Overweight? How do you identify overweight and obesity at different age people? Explain. 2+3

3. a) What are the indices of Anthropometry and how do you identify the nutritional condition by using the anthropometric indices? 5

   b) Compare the Z-Scores and Percent of reference median value. 5

4. a) What is nutrition transition? Show its effects on human health. 1+2

   b) Write down the different patterns of nutrition transition. 3

   c) Justify that "Globalization processes linked with the nutrition transition" 4

5. a) Define sample and population. Which criteria must be considered during sampling design? Explain. 2+3

   b) Illustrate the different types of Dietary assessment methods with examples. 5

Chattogram Veterinary and Animal Sciences University
MS in Applied Human Nutrition and Dietetics
July-December Semester Final, 2023
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) Write an account of absorption and transportation of Vitamin A　　5

   b) Which vitamin requires cobalt for its activity? How this vitamin absorbed in our body?　　5

2. a) Vitamin D is a hormone, justify its status as a hormone.　　5

   b) Calcitriol increases calcium absorption Explain.　　5

3. a) What do you mean by availability of Calcium. Which factors regulates plasma Ca level?　　8

   b) Why minerals are so important for life?　　2

4. a) Explain the term Hypocalcemia.　　4

   b) Write a short note on any three-　　3×2

      I. Macrocytic Anemia

      II. Biochemical function of vitamin C

      III. Role of phosphorous

      IV. Folate Deficiency

5. a) A 55-year old female was admitted in chattogram medical college hospital with typical symptoms of lead poisoning (encephalopathy,nephropathy and anemia). The lead level in blood was over 100 microgram/dl.　　6

      a) What are the possible Sources of lead poison

      b) What other signs and symptoms occurs on Lead Poisoning

   b) Explain Corrosives and Irritants.　　4

MS in Applied Human Nutrition and Dietetics

July-December Semester Final Examination-2023

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-based management.   1
    b) sketch the Domains that influence the evidence-based decision-making   2
        process.
    c) Classify the different types of scientific evidence for public health. Compare   2+5
        their main characteristics.

2. a) What are the key characteristics of evidence-based decision-making?   3
    b) How do you develop questions for your evaluation?   2
    c) Generalized the analytical tools for evidence-based public health programs.   5

3. a) What is Research and Evaluation?   1+1
    b) Write down some advantages and disadvantages of various survey methods.   5
    c) Write down the characteristics of a good evaluator.   3

4. a) Name the steps in the evaluation framework according to the CDC   2
    b) Explain the four standards that have to be maintained in every step of   4
        evaluation.
    c) What is Quasi-experimental design? When it is appropriate to use?   4

5. a) What is cost-benefit analysis in nutritional programs?   2
    b) Explain how to conduct a cost-benefit analysis in designing a program.   5
    c) Discuss the advantages and disadvantages of cost-benefit analysis.   3