

**MS in Applied Human Nutrition and Dietetics**  
**July-December Semester Final Examination-2022 2021**  
**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 nutritional relief. What is the importance of relief? 05  
b) What is the nutritional survey. Explain the steps involved in a nutritional survey 05
3. a) List out the name of hazards and their impact on Bangladesh 04  
b) Explain CPP and the management sequence of a sudden-onset disaster 06
4. a) What is an early warning system? Briefly describe the disaster model of Bangladesh 06  
b) Describe the role of government and non-government organizations in mitigating nutrient deficiency in a disaster-prone area 04
5. a) How manage nutritional emergency situations? 04  
b) Shortly describe the nutritional assessment system 06

**MS in Applied Human Nutrition and Dietetics**  
**July-December Semester Final Examination-2022 2021**  
**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) Shortly describe the etiology and management of renal disease 07  
b) How does hyperlipidemia lead to atherosclerosis? 03
2. a) What is the nutritional management of fatty liver? 05  
b) Enlist causes, signs, and symptoms of liver disease 05
3. Write down the short note on: 2.5\*4=10  
i) IBD (Irritable Bowel syndrome) ii) Celiac disease iii) Homocystinuria iv) Wilson's disease.
4. a) Define diabetes mellitus. Classify it with general characteristics and symptoms 05  
b) Briefly discuss the pathophysiology of food allergy and its dietary management 05
5. c) Construct the mode of action pathway of proton pump inhibitors and bismuth subsalicylate 04  
b) Illustrate the Fredrickson classification of hyperlipidemias 06

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**July-December -2021 Semester Final**

**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) Which Vitamin is known as antirachitic vitamin? Write down its synthesis pathway. 4  
b) Describe biochemical role, daily requirement, source and deficiency manifestation of vitamin C. 6
2. a) Calcitriol increases calcium absorption-Explain. 3  
b) Discuss the relationship between absorption of vitamin D and Ca. 3  
c) Define Calcium homeostasis. What Factors causes decreased absorption of Ca? 4
3. a) Discuss on Folic Acid absorption and its Deficiency manifestations. 3+3  
b) Explain absorption and storage of vitamin B<sub>12</sub>. 4
4. a) Write down the functions of **FMN** and **FAD**? 4  
b) Write a short note on any three- 3×2
  - I. Calcitonin
  - II. Calpains
  - III. NAD<sup>+</sup> dependent enzyme
  - IV. Macrocytic Anemia
5. a) What are the mechanisms of regulation of Fe absorption? 6  
b) Explain the role of **PLP** on Transamination and Decarboxylation Process. 4

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**July-December-2021 Semester Final**

**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) Define balanced diet. Mention the types of modification of a normal diet. 1+3  
      b) Food exchanges make diet planning easy – justify. 2  
      c) Tabulate the modifications for Children and Adolescents. 4
  
2.    a) Define Food-drug interaction. List any five examples of drug-food interactions that delay the absorption of drug. 1+5  
      b) Define therapeutic diet. A 15 year girl, Ruma likes to eat three full meals in a day. She is suffering from diarrhoea. Suggest modification in her diet. 2+2
  
3.    a) Briefly describe the types of eating disorders. 5  
      b) What strategy should follow to treat eating disorders. 5
  
4.    a) Explain the route and delivery method of enteral feeding. 6  
      b) Classify the enteral formula. 4
  
5.    a) Define TPN and PPN. What factors should be considered while choosing an enteral formula? 2+4  
      b) Tabulate the positive and negative aspects of Enteral Nutrition. 4