

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

January-June Semester Final, 2023

Course: Primary Health Care and Contemporary Health Issues

Course Code: PCH-501

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 do you mean by “HDI”? Primary health care is an ideal health care-justify. 1+4
b) Provide a model to show a variety of intervention for causation of myocardial infection. 5
2. a) Define Health. Health is on one hand a personal responsibility, on the other hand a major public concern- discuss both views. 1+4
b) Summarises the concepts of disease causation. 5
3. a) Define primary health care. State different levels of health care delivery system in Bangladesh. 2+3
b) Describe on comprehensive health care. 5
4. a) Tabulate the indicators towards “Health for All” 4
b) Write a short note on- 3×2
 - I. Public health
 - II. Alma Ata declaration
 - III. Crude death rate
5. a) What do you mean by hidden hunger? How has disease pattern changed in the recent years? 5
b) “Health is multifactorial”- justify the statement. 5

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Course: Active Health and Fitness Nutrition

Course Code: AHF-501

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 down the anatomical and biochemical differences in fat deposition? 5
 b) Explain the role of hormone in weight management. 5

2. a) What are the major factors that influence body temperature? How does body regulate its own temperature? 5
 b) Define ergogenic aid. What are the importance and categories of ergogenic aid? 5

3. a) Write down the composition of sweat? How much fluid of a 9%CHO-electrolyte solution does an 80 kg marathon runner need to consume in order to ingest 1.5 g exogenous CHO/kg/hr.? 2+3
 b) Describe the functions of water in our body. 5

4. a) Explain the treatment for overweight. 4
 b) Write a short note on- 3×2
 - I. Cardiovascular strain
 - II. Osmosis and tonicity
 - III. Bariatric surgery

5. a) What do you mean by exercise? How exercise enhance health-explain with mechanism. 5
 b) What is hyper-hydration and rehydration? Discuss on physiological effects of dehydration. 5

MS in Applied Human Nutrition and Dietetics

January-June Semester Final Examination-2023

Course Title: Advanced Macronutrients

Course Code: ADN -501

Full Marks: 40

Time: 2 hours

Answer any **four** questions. Figures in the right margin indicate full marks. **Split answer is not allowed.**

1. a. Define Anabolism and catabolism. 1+1
b. Write down the major complex biomolecule of cell with their main function. 5
c. Write down the Advantages of lipids over carbohydrate or protein metabolism. 3
2. a. Draw a schematic representation of lipid metabolism showing the major end product. 5
b. What is the disorder occurring due to adverse effects of heavy metal in mammalian. 3
c. List the target organ that affects by heavy metal. 2
3. a. Elaborate the Hexose mono-phosphate shunt pathway. 6
b. Describe the effects of mercury in human body. 4
4. a. Define oxidative stress. 1
b. Summarize the pathogenic roles of oxidative stress. 5
c. Draw the schematic representation of the mechanism of production of reactive species (ROS). 4
5. a. Write down some beneficial effects dietary fiber in human health. 4
b. How Polyunsaturated Fatty Acids Can Influence Inflammatory Cell Function? Explain. 6

MS in Applied Human Nutrition and Dietetics

January-June Semester Final Examination-2023

Course Title: Global Food Issues, Food Policy and International Health

Course Code: GFI -501

Full Marks: 40

Time: 2 hours

Answer any **four (4)** questions. Figures in the right margin indicate full marks. **Split answer is not allowed.**

1. a. What is Integrated Food Security Phase Classification (IPC)? 1
- b. Explain the all phases of Integrated Food Security Phase Classification (IPC). 5
- c. Write down the Guiding principles for IPC implementation. 4
2. a. Define food safety and food security. 2
- b. What is the five key principle of food hygiene according to WHO 2
- c. Elaborate the major food safety concerns in Bangladesh and their impact on public health 6
3. a. Define bio-fortification. 1
- b. Why Biofortified crops are not a sensible solution to hunger? explain 5
- c. Write down the effects of green revolution in agriculture. 4
4. a. Describe the concept of nutraceuticals. Write down the importance of nutraceutical. 3+2
- b. Summarize the direct intervention for improving nutrition security in Bangladesh. 5
5. a. What is Global health initiative (GHI)? 2
- b. How global environmental sustainability achieved explain? 5
- c. Show the challenges faced by NGOs in Bangladesh. 3

MS in Applied Human Nutrition and Dietetics
January-June Semester Final Examination-2023

Course Title: Community Nutrition

Course Code: CMN -501

Full Marks: 40

Time: 2 hours

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

1. a) Define nutrition communication. How do you identify target groups? 1+3
b) What is health promotion? Explain the general strategies of health promotion. 1+5
2. a) Define community. Briefly discuss the role of the community nutritionist in nutrition education 05
b) Describe the process of testing nutritional message 05
3. a) Shortly describe Bangladesh Integrated Nutrition Project (BINP) 04
b) What is monitoring and evaluation? Illustrate the process of project evaluation 06
4. Define community Nutrition. Draw and discuss the conceptual framework of Malnutrition adopted from UNICEF. 02+08
=10
5. a) What are the tools for nutrition communication? Differentiate between media and method 05
b) Discuss the Identification of Project Cost and Benefit 05

MS in Applied Human Nutrition and Dietetics
January- June Semester Final Examination-2023
Course Title: Human Growth and Development
Course Code: HGD-501
Full Marks: 40 **Time: 2 hours**

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

1. Define pediatric nutrition. Illustrate some problems in infancy 06
 - b) Why cognitive development is important for children 04
2. a) What is human growth and development. Enlist different stages of the normal human life cycle 04
 - b) Explain the concept and importance of care in different stages of life cycle 06
3. a) Justify the importance of prenatal and intranatal care during pregnancy 05
 - b) Discuss biological and environmental factors affecting child growth 05
4. a) Narrate Briefly measures to improve caring practices during pregnancy 05
 - b) Illustrate the advantages and disadvantages of growth monitoring of children 05
5. a) Elaborate on the extended model of care by UNICEF 06
 - b) Which factors affect the food intake pattern of geriatric people 04