

MS in Applied Human Nutrition and Dietetics

January-June Semester Final Examination-2021

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

1. a. Define Metabolism. Write down its importance in human body 1+2
 - b. Write down the major complex biomolecule of cell with their main function. 4
 - c. Define the Cori cycle with their importance. 3
 2. a. Draw a schematic representation of Lipid metabolism 6
 - b. Write down mechanism of lead toxicity 4
 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. How Reactive Oxygen Species (ROS) are produced in human body? 5
 - c. Write-down the detrimental effects of free radical on human health. 4
 5. a. Write down some beneficial effects dietary fiber in human health. 4
 - b. How Polyunsaturated Fatty Acids Can Influence Inflammatory Cell Function? 6
- Explain.

MS in Applied Human Nutrition and Dietetics

January-June Semester Final Examination-2021

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

Course Code: GFI -501

Full Marks: 40

Time: 2 hours

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

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. What do you mean by Green Revolution? 2
- b. "In Green Revolution the Calorie Availability Increases but Micronutrient Intake Is Still Lagging" Explain. 4
- c. Describe the importance of environment, health and economy. 4
3. a. What do you mean by nutraceutical food products? 2
- b. Summarize some causes of food insecurity. 4
- c. What is crop diversification? What are the factors that effecting the crop diversification? 2+2
4. a. Define the concept of risk, crisis and Hazard 3
- b. Why global health initiatives are important? 3
- c. Write down the prerequisite program to established HACCP 4
5. a. Illustrate the role of governments and NGO to maintain global environmental sustainability 6
- b. Differentiate Global health, international health and public health? 4

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

January – June Semester Final, 2021

Course: Primary health care and contemporary health issues

Course Code: PHC-501

Full Marks: 40

Time: 2 hours

Answer any four from the followings

1. a) What public health means? Write its mission. 3
b) How has the concept of health been adapted? 7
2. a) How does global climate change occur? 3
b) Briefly discuss the impact of climate change on human health. 7
3. a) What are the major contributing factors to emerging diseases? 3
b) How will you use primary health care principles to control SARS COV-2 as an emerging infectious disease? 7
4. a) What are the most pressing health concerns in developing countries today? 2
b) Discuss the key risk factors for the most common diseases in Bangladesh with their prevention and control measures. 8
5. a) 'Primary health care is the key approach to attain health for all'- Justify. 2
b) State the different levels of health care delivery system in Bangladesh with example. 4
c) Describe the indicators of primary health care system in Bangladesh. 4

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

January-June Semester Final, 2021

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) What are the basic principles of exercise training? 5
 b) Briefly explain fluid intake guidelines before, during, and after exercise in hot environment. 5

2. a) Define Exercise. Exercise may induce adaptations- explain with mechanism. 1+5
 b) Briefly describe your idea on Nutrition, fitness, and sport. 4

3. a) What is an ergogenic aid? List major categories of ergogenic aid with an example. 1+3
 b) Describe the seven dimensions of wellness. 5

4. a) What do you mean by health? Exercise is medicine- Explain. 4
 b) Write a short note on any three- 3×2
 - I. Health-related fitness.
 - II. Nonexercise activity thermogenesis.
 - III. Diastolic blood pressure (DBP).
 - IV. Physical activity.

5. Discuss the means whereby your body maintains normal water balance. Include in your discussion the role of the blood, hypothalamus, pituitary gland, antidiuretic hormone, and kidney. 5+5

MS in Applied Human Nutrition and Dietetics
January- June Semester Final Examination-2021
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. a) Define care. Identify the risk factor for special care. 05
b) Explain most used anthropometric measurements for growth and development 05
2. a) Define pediatric nutrition. Illustrate some problem in infancy 06
b) Why cognitive development is important for children 04
3. a) Define intranatal care. Outline the importance of prenatal and post-natal care for both mother and child. 07
b) Sketch and label the diagrammatic figure of extended model of care by UNICEF 03
4. a) Justify the importance of prenatal and intranatal care during pregnancy 05
b) Interpret the major complication faced by a pregnant woman 05
5. a) What is human growth and development. Enlist different stages of normal human life cycle 04
b) Explain the "behavioral model" and the "Cognitive developmental model" of human development 06

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January-June Semester Final Examination-2021

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? 04
b) What do you mean by health promotion? Write the general strategies for health promotion 06
2. a) Define community. Briefly discuss the role of the community nutritionist in nutrition education 05
b) What is nutrition education. Summarize the process of behavioral learning in nutrition education? 05
3. a) Define nutrition project and program? 03
b) Explain Food for education and Bangladesh Integrated Nutrition Program 07
4. a) What is project cycle? How do you monitor and evaluate a nutrition project? 06
b) Discuss the aspects of community Nutrition Diagnosis 04
5. a) How do you formulate nutritional message? 04
b) Explain the methods of nutrition communication with examples 06