

Chattogram Veterinary and Animal Sciences University
MS in Applied Human Nutrition & Dietetics
January-June Semester Final Examination-2024
Course Title: Human Growth and Development
Course Code: HGD-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 human growth and development? 2
b) List the different stages of the normal human life cycle. 2
c) Summarize the concept and importance of care in different stages of life cycle. 6
2. a) Define care. What are the risk factors for special care? 4
b) Outline the importance of prenatal and post-natal care for both mother and child. 6
3. a) What is pediatric nutrition? Explain most used anthropometric measurement for growth and development. 5
b) Discuss biological and environmental factors affecting child growth. 5
4. a) Interpret the major complication faced by a pregnant woman. 5
b) Elaborate the extended model of care by UNICEF. 5
5. a) Illustrate the physiological and psychological changes during adolescent period. 5
b) How did socio-emotional development occur at the early age of life? 5

MS in (Applied Human Nutrition and Dietetics), 5th Year 1st Semester Final Examination,
(January-June Semester, 2024)

Course Title: Active Health and Fitness Nutrition

Course Code: AHF-501 (Theory)

Full Marks: 40, Time: 2 hours, Date: 11.07.24

Answer any Four out of Five questions. All questions carry equal marks.

1. a) What is obesity? List the factors that affect obesity. 01+02
b) How do you manage obesity in different stages of life through different approaches? Explain in detail. 07
2. a) What are the factors affecting the food habits of a person? 03
b) In what way you will achieve a healthy body composition? Summarize your opinions regarding this. 07
3. a) Briefly state the benefits of doing different physical activities to become healthy. 05
b) Define BMR. Mention the factors affecting the BMR of a person. 05
4. a) Elaborately describe the nutritional management of an athlete. 05
b) Does obesity lead to higher morbidity and mortality rates among people? 05
If yes, how do you care for obese people?
5. Write down short note of the following ~ 2.5X4
 - a) EER and EEM
 - b) Big Food
 - c) Food Intoxication
 - d) Use of nutrient supplements for an athlete

Chattogram Veterinary and Animal Sciences University
MS in Applied Human Nutrition & Dietetics
January-June Semester Final Examination-2024
Course Title: Primary Health Care & 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) 'Primary health care is the most inclusive, equitable and cost-effective way to achieve universal health coverage'- Justify 3
b) State the different levels of health care delivery system in Bangladesh with example. 4
c) Enlist the elements of primary health care. 3
2. a) Which health issues are currently causing the most concern in emerging nations? 2
b) Discuss the main causes of the most prevalent disease in Bangladesh along with the steps you may take to prevent and manage it. 8
3. a) Define comprehensive health care. Describe the characteristics of comprehensive health care. 5
b) What does Public Health mean? Explain multidimensional theme of health in most cultures. 5
4. a) Define emerging and re-emerging diseases. What are the major factors that contribute to emerging diseases? 15
b) Briefly discuss the impact of climate change on human health. 5
5. a) What are the objectives of Alma Ata Conference? 3
b) Give a brief summary of the difficulties faced by Bangladesh's Health System. 7

MS in Applied Human Nutrition and Dietetics

January-June Semester Final Examination-2024

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. | Define Global Health Initiative (GHI). What are the Principles of GHI | 1+1 |
| | b. | Explain the Four components of GHI. | 4 |
| | c. | Write down the potential activities of GHI in Bangladesh. | 4 |
| 2. | a. | Define Food Hazards and crisis. | 1+1 |
| | b. | Elaborate the major food safety concerns in Bangladesh and their impact on public health. | 5 |
| | c. | Give some Examples of biological, chemical, and Physical hazards. | 3 |
| 3. | a. | Define Green Revolution. | 1 |
| | b. | Explain how the Calorie Availability Increases but Micronutrient Intake decreases due to the Green Revolution. | 4 |
| | c. | Summarize the key recommendations for agricultural programs and policies for nutrition. | 5 |
| 4. | a. | Define household food security. Elaborate on the situation of household food security in Bangladesh. | 1+4 |
| | b. | Summarize the measures taken to improve household food security in developing countries. | 5 |
| 5. | a. | Write down the concept of Integrated Food Security Phase Classification (IPC). | 5 |
| | b. | How Does Integrated Food Security Work? | 2 |
| | c. | Briefly describe the importance of IPC. | 3 |

MS in (Applied Human Nutrition and Dietetics), 5th Year 1st Semester Final Examination,
(January-June Semester, 2024)

Course Title: Community Nutrition (CMN-501)

Course Code: CMN-501 (Theory)

Full Marks: 40, Time: 2 hours, Date: 07.07.24

Answer any Four out of the Five questions. All questions carry equal marks.

1. a) What do you mean by community nutrition? Outline the different assessment methods of assessing nutritional status among different age groups in a community. 02+03
b) How do you implement a nutrition project? Discuss it in detail about it. 05
2. a) Briefly explain about monitoring and evaluation of any project. 05
b) List out the factors of conducting an agricultural project and identifying its cost-benefit analysis. 05
3. a) Describe the Food for Work and Vulnerable Group Development Program executed in Bangladesh. 05
b) Draw and summarize the conceptual framework of Malnutrition. 05
4. a) Define nutrition education. Mention the different strategies of nutrition communication. 02+03
b) How do you formulate and test a nutritional message? State the advantages and disadvantages of methods applied in nutrition communication. 05
5. Write down short notes of the following ~ 2.5X4
 - a) Nutritional management of community people during disaster
 - b) National Nutrition Program
 - c) Techniques of community mobilization
 - d) Indicators of nutritional assessment of U-5 years children

MS in Applied Human Nutrition and Dietetics

January-June Semester Final Examination-2024

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 Ketogenesis. | 1 |
| | b. | Summarize the pathological condition of ketogenesis in humans. | 6 |
| | c. | Define the Cori cycle with their importance. | 3 |
| 2. | a. | Elaborate the Tricarboxylic acid cycle (TCA) | 7 |
| | b. | Summarize the heavy metal effects on the cellular level. | 3 |
| 3. | a. | Elaborate the glycolysis process of glucose. | 6 |
| | b. | How oxidative stress-induced cancer and cardiovascular disease | 4 |
| 4. | a. | Define free radical and oxidative stress. | 2 |
| | b. | Enlist some Reactive Oxygen Species. How Reactive Oxygen Species (ROS) are Activated in the human body? | 5 |
| | c. | Write down the role of antioxidants in the prevention of disease | 3 |
| 5. | a. | Explain the Metabolic profile of different organs. | 4 |
| | b. | How omega-3 fatty acids help below listed immune cells. | 6 |
| | i) | Dendritic cells | |
| | ii) | Mast cells | |
| | iii) | basophils | |