

MS in Applied Human Nutrition and Dietetics
January-June Semester Final Examination-2022

Course Title: Community Nutrition

Course Code: CMN -501

Time:2 hours Marks: 40

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

1. a) Define nutrition communication. Enlist tools of nutrition communication. Shortly describe methods of nutritional communication 10
2. a) What is the project cycle? How do you monitor and evaluate a nutrition project? 06
b) How do you formulate nutritional message? 04
3. a) Explain Food for education and Bangladesh Integrated Nutrition Program 07
b) Write down the aspects of community Nutrition Diagnosis 03
4. a) Differentiate between media and method. Write down the application of nutrition principles to community problems 07
b) Enlist the methods of nutritional assessment 03
5. a) What is nutrition education. Summarize the process of behavioral learning in nutrition education? 05
b) Define monitoring and evaluation. Illustrate the process of project evaluation 05

MS in Applied Human Nutrition and Dietetics
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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) Why cognitive development is important for children? Narrate briefly about different factors affecting child growth and development. 3+3=06
b) Explain the most used anthropometric measurements for growth and development 04
2. a) What is human growth and development. Enlist different stages of the normal human life cycle 04
b) Explain the “behavioral model” and the “Cognitive developmental model” of human development 06
3. a) Illustrate the physiological and psychological changes during the adolescent period 05
b) Briefly describe the constraints of caring for pregnancy during pregnancy 05
4. a) Define a growth chart and growth monitoring. Summarize the advantages and limitations of growth monitoring of children 06
b) What are the biological changes that jeopardize the nutritional status of geriatric people 04
5. a) Define prenatal care and intra-natal care. Outline the importance of antenatal and post-natal checkups for both mother and child 07
b) How socio-emotional development occurred at the early age of life 03

Chittagong Veterinary and Animal Sciences University

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January – June Semester Final, 2022

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 do you mean by emerging infectious and re-emerging diseases? 3
b) Explain the challenges that Bangladesh experienced during COVID -19 pandemic and how to address them? 7
2. a) Define externalities. How do externalities affect health services? 5
b) Describe the steps in the economic analysis of health projects. 5
3. a) What are antimicrobials? 1
b) What is antimicrobial resistance? Why is antimicrobial resistance a global concern? 4
c) Describe the current policies and strategies to containment of AMR in Bangladesh. 5
4. a) What is comprehensive health care? Mention the characteristics of comprehensive health care. 3
b) “Health is a multidimensional theme in most culture”- Justify. 4
c) Define Primary health care. Why PHC is essential? 3
5. Write short notes on- 5X2
a) Dengue outbreak in Bangladesh.
b) socio-cultural context of health and illness

Chattogram Veterinary and Animal Sciences University

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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) What is meant by Physical Fitness? Highlight the importance of physical fitness. 4
- b) Briefly illustrate the feedback mechanism for control of body water. 4
- c) Define Hyperhydration and Rehydration. 2
2. a) How hormonal imbalance cause weight gain? 4
- b) Describe dietary interventions to promote weight loss. 4
- c) Classify obesity. 2
3. a) Define ergogenic aid. List out major categories of ergogenic aid. 1+3
- b) Explain the different types of physical fitness and their components. 3+3
4. a) Explain the principles, meaning and aims of sports training; 4
- b) Write a short note on any three- 3×2
 - I. Differentiate between aerobic and anaerobic exercises.
 - II. Intellectual Dimension
 - III. Physical activity
 - IV. Define Osmosis and tonicity
5. a) Discuss on simplified schematic of body temperature control. 3
- b) What do you mean by dehydration? Explain the physiological effects of dehydration. 4
- c) What are the major factors that influence body temperature? 3

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January-June Semester Final Examination-2022

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 strictly discouraged.**

1. 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
2. a. Write down the concept of Integrated Food Security Phase Classification (IPC). 5
- b. How Does Integrated Food Security work? 2
- c. Briefly described the importance of IPC. 3
3. a. Define Green Revolution? 1
- b. Explain how the Calorie Availability Increases but Micronutrient Intake Is decrease due to Green Revolution. 4.5
- c. Describe the green revolution impact on agricultural production. 4.5
4. a. What do you mean by nutraceutical food products? Classify the nutraceutical substances used in food products. 2+2
- b. Summarize the indirect routes for improving nutrition security. 4
- c. List the component of health. 2
5. a. What is Global health initiative (GHI)? 2
- b. How global environmental sustainability achieved explain? 5
- c. Show the challenges faced by NGO's in Bangladesh. 3

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Course Title: Advanced Macronutrients

Course Code: ADN -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. Define Metabolism with its classification. 2
b. Sketch the flow diagram of organ specific metabolism of CHO and Amino acid. 5
c. Define the Cori cycle with their importance. 3

2. a. Elaborate the Tricarboxylic acid cycle (TCA) 6
b. Write down the overall mechanism of Heavy metal toxicity 4

3. a. Define restriction enzyme. Write down the function of restriction enzyme. 1+2
b. Describe the glycolysis process of glucose. 7

4. a. Define free radical and oxidative stress. 2
b. Enlist some Reactive Oxygen Species. How Reactive Oxygen Species (ROS) are Activated in human body? 1+4
c. Briefly Summarize the chemical properties of lipids. 3

5. a. Explain the effects of Omega-3 fatty acids on inflammation. 6
b. Write-down the Pathogenic role of Oxidative Stress. 4