

Chittagong Veterinary and Animal Sciences University

Dept. of Applied Food Science and Nutrition

MS in Applied Human Nutrition and Dietetics

January - June Semester, 2018

Course Name: Human Growth and Development, Course Code: HGD – 501

Full Marks: 40, Time: 2 hours

Answer any Four (04) Questions from listed below. Figures in the right margin indicate full marks. Split answer is strongly discouraged.

1. a) Give the definition of prenatal care and intra natal care. 03
b) Outline the importance of antenatal and post natal check up for both mother and child. 07
2. a) What do you mean by human growth and development? 03
b) Narrate briefly about different factors affecting child growth and development. 04
c) What are the biological changes jeopardize nutritional status of geriatric people? 03
3. a) Define growth chart and growth monitoring. 03
b) Summarize the advantages and limitations of growth monitoring of children. 05
c) Mention the name of nutrients affecting human growth and development. 02
4. a) Explain the concept and importance of care in different stages of life cycle. 05
b) Briefly discuss about the physiological and psychological changes occurring during adolescent period. 05
5. Write down short note on the followings – 05X2
a) Measures to improve caring practices during pregnancy
b) Different stages of child growth and development

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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 is Chikungunya (CHIK)? 2
b) Write a brief on the Chikungunya (CHIK) outbreak in Bangladesh. 4
c) According to your opinion what will be the strategic plan for prevention and control of chikungunya in Bangladesh. 4
2. a) Define Malnutrition. Who are at risk of malnutrition? 3
b) What are the various forms of malnutrition? 3
c) State the United Nations worldwide actions on nutrition. 4
3. a) What is comprehensive health care? 2
b) Mention the characteristics of comprehensive health care. 4
c) How can people utilize health care delivery services of a country? 4
4. a) Define Primary Health Care (PHC). 2
b) Discuss the role of community participation in PHC. Differentiate between equitable and equal distribution of resources. 4
c) What do you mean by multisectoral approach and appropriate technology in PHC? 4
5. a) "Primary Health Care is an ideal health care" justify the statement. 5
b) Discuss the concepts and importance of iceberg of disease. 5

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Course Name: Active Health and Fitness Nutrition, Course Code: AHF- 501

Full Marks: 40, Time: 2 hours

Answer any Four (04) Questions from listed below. Figures in the right margin indicate full marks. Split answer is strongly discouraged.

1. a) Define obesity. 02
b) Mention the complications of obesity in later stages of life. 05
c) What are the factors affecting obesity in children? 03
2. a) Summarize the importance of physical activity to improve nutritional status. 06
b) What do you mean by healthy eating? List the methods of assessing obesity of an individual. 02+02
3. a) Narrate down briefly about the role of genetics, age and food intake pattern on body composition of an individual. 08
b) List the health benefits of consuming nutrient supplement. 02
4. a) What is sports nutrition? 02
b) Discuss in details about the dietary management of an athlete. 08
5. Write down short note on the followings ~ 05X2
a) Health hazards of eating Fast Food
b) Management of obesity

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Course: Global Food Issues and International Health

Course Code: GFI-501

Full Marks: 40

Time: 2 hours

Answer any four from the followings

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| 1. | a) What do you mean by referral system? | 2 |
| | b) "Bangladesh lacks proper referral system"- give your opinion. | 8 |
| 2. | "Human health and environmental sustainability is the 21st century's grand challenges"- Justify the statement. | 10 |
| 3. | a) What do you mean by green revolution? | 3 |
| | b) Discuss the correlation between green revolution and population growth in the context of Bangladesh. | 7 |
| 4. | a) According to your opinion what are the top problems with the global food system? | 5 |
| | b) How can we mitigate the problems? | 5 |
| 5. | a) How technology impacts on human health? | 5 |
| | b) How agricultural development can improve human health and nutrition? Write with scientific evidence. | 5 |

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Course: Advanced Macronutrient

Course Code: ADN-501

Full Marks: 40 Time: 2 hours

Answer any four from the followings

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| 1. a) Discuss the different procedures to metabolize amino acid. | 8 |
| b) What are the metabolic disorders of urea cycle? | 2 |
| 2. a) Give a comparison of fatty acid synthesis and oxidation. | 3 |
| b) Write about the types and metabolism of lipoproteins. | 7 |
| 3. a) State the substrate level phosphorylation in glycolysis. | 5 |
| b) Write a short note on glycogen storage disease. | 5 |
| 4. a) What is the location of TCA cycle in human body? Write the pre-stage of TCA cycle. Which vitamins are involved in the stage? | 4 |
| b) Describe the regulation of metabolic flow from pyruvate through the citric acid cycle. | 6 |
| 5. Write an overview on krebs cycle and indicate the irreversible reactions on it. | 10 |

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Course Name: Community Nutrition, Course Code: CMN- 501

Full Marks: 40, Time: 2 hours

Answer any Four (04) Questions from listed below. Figures in the right margin indicate full marks. Split answer is strongly discouraged.

1. a) Give the definition of Community Nutrition. 02
b) Draw and discuss the conceptual framework of Malnutrition adopted from UNICEF. 08
2. a) What do you mean by Nutrition Project and Program? 03
b) Explain in details about the Food for Education and Bangladesh Integrated Nutrition Program. 07
3. a) What is Project Cycle? 02
b) Discuss the aspects of Community Nutrition Diagnosis. 04
c) How do you monitor and evaluate a nutrition project? 04
4. a) Define Nutrition Communication. 02
b) List the methods of assessing nutritional status of community people. 02
c) Narrate briefly about the different methods of nutrition communication to combat malnutrition 06
5. Write down short note on the followings ~ 05X2
a) Identification of Project Cost and Benefits
b) Formulation and Testing of Nutritional Message