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St Aloysius College (Autonomous)

Mangaluru

Semester III - P.G. Examination - M.Sc. Food Science Nutrition and Dietetics
February - 2022

ADVANCED NUTRITION II

Time: 3 hrs.

Max Marks: 70

I. Answer any SIX of the following:

(6x3=18)

1. List the major food sources for potassium, chlorine
2. What is vitamin K primary role in the body? What conditions may lead to vitamin K deficiency?
3. Write a short note on deficiency of biotin and folic acid
4. What is the Physiological role of calcium?
5. Write in brief about the transport of vitamin B12
6. Write a short note on magnesium interaction with other nutrients
7. Physiological role of Vitamin A

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II. Answer any FOUR of the following:

(4x7=28)

8. What are the risks associated with niacin and vitamin B6
9. Write about the synthesis of Vitamin A from its provitamin and its deficiency
10. Explain the functions and deficiency of zinc and iodine in the body
11. Describe the functions of vitamin E? What are the chief symptoms of vitamin E deficiency?
12. Elaborate on goiter and pernicious anemia.

III. Answer any TWO of the following:

(2 x12=24)

13. Discuss in detail about the RDA, digestion, absorption, and metabolic utilization of Vitamin C
14. Describe the enzyme systems involved mechanism of detoxification
15. Discuss on Physiological role, RDA and deficiency of iron and copper

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CLINICAL & THERAPEUTIC NUTRITION II

Time: 3 hrs.

Max Marks: 70

I. Answer any SIX of the following: (6x3=18)

1. Write a short note on nutritional assessment of Type II diabetes
2. Write in brief about medical nutrition therapy
3. Write a nutrition prescription for any one neurological disorder
4. Define Pathophysiology and Pathogenesis
5. Define drug - nutrient and food - drug interaction with examples
6. What are the steps in diagnosing liver cirrhosis?
7. Write a note on etiology of Alzheimer's disease

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II. Answer any FOUR of the following: (4x7=28)

8. Describe the pathogenesis of nonalcoholic fatty liver disease
9. Write in detail on the nutrition support in long-term and home care
10. Describe the pathophysiology of Rheumatoid Arthritis and Osteoarthritis
11. Discuss the effectiveness of MNT in cardio vascular disorders
12. Discuss the goals of nutrition therapy and follow ups for obesity

III. Answer any TWO of the following: (2 x12=24)

13. Discuss in detail about the effect of drug on nutritional Status, food and nutrition
14. Discuss the recent advances in techniques and feeding substrates management of any two diet related health disorders
15. Describe the pathophysiological response to stress during acute and critical illnesses

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NUTRITIONAL BIOCHEMISTRY

Time: 3 hrs.

Max Marks: 70

I. Answer any SIX of the following:

(6x3=18)

1. Fluid mosaic model
2. Write a short note on nomenclature of enzymes
3. What are the structural features of carbohydrates?
4. Write any four biological functions of lipids
5. Distinguish Coenzymes and cofactors
6. Laws of thermodynamics
7. Write in brief on cellular respiration

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II. Answer any FOUR of the following:

(4x7=28)

8. Describe the role of electron transport in energy production
9. Explain the factors affecting enzyme activity enzyme inhibition
10. Write in detail on cell signaling
11. Write the classification and properties of proteins
12. Explain about dietary fats

III. Answer any TWO of the following:

(2 x12=24)

13. Discuss in detail on sources of and fates of acetyl co A
14. Explain about glycolipids, lipoproteins and their role in health and disease.
15. Elaborate on the mechanisms of enzyme action

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DIET THERAPY

Time: 3 hrs.

Max Marks: 70

I. Answer any SIX of the following:

(6x3=18)

1. Write a short note on nutritional intervention and diet modifications
2. Write a short note Paleolithic diet
3. Write in brief about the types of hospital diets
4. Etiology and symptoms of Celiac disease
5. Write a short note on Complications in TPN
6. Write in brief about the elimination diet for allergy
7. Write in brief on etiology and dietary modification chronic renal failure.

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II. Answer any FOUR of the following:

(4x7=28)

8. Define Esophagitis, Hemorrhoids, Steatorrhea, Celiac Sprue, Dysphagia and Epilepsy.
9. Explain any three types of enteral feeding
10. Discuss on pre and post operative diets
11. Write on the dietary management of cholecystitis and cholelithiasis
12. Elaborate on prevalence and diet related factors influencing hypertension.

III. Answer any TWO of the following:

(2 x12=24)

13. Discuss in detail about the diet in Energy Imbalance
14. Explain the risk factors, Etiology, Symptoms, and dietary management of CVD
15. Describe the dietary modification and nutritional support for HIV
