

PH 811.3

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**St Aloysius College (Autonomous)
Mangaluru**

**Semester III – P.G. Examination - M.Sc. Food Science, Nutrition
and Dietetics**

JANUARY-2021

ADVANCED NUTRITION - II

Max. Marks: 70

(6x3=18)

Time: 3 Hours

I. Answer any SIX of the following.

1. Explain the functions and food sources of calcium.
2. What is pellagra?
3. List down the functions of Vitamin C.
4. Write about toxicity of fat soluble vitamins?
5. What are the major deficiency symptoms of macro minerals?
6. Explain 3D's.
7. What is rickets?

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(4x7=28)

II. Answer any FOUR of the following.

8. Write on deficiency and toxicity levels of vitamin A.
9. Explain the transportation, function and deficiency of Calcium.
10. Explain the functions and food sources of sodium, chloride and potassium.
11. Write the metabolism, RDA and food sources of folic acid.
12. What are the food sources and deficiency of Fluoride, Zinc and Copper? Add a note on its RDA.

III. Answer any TWO of the following:

(2x12=24)

13. Explain the metabolic functions of fat soluble vitamins D and K.
14. Explain the Metabolism of Iron and Iodine.
15. Discuss on xenobiotics, detoxification and role of enzymes in the mechanism.

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**Semester III – P.G. Examination – M. Sc. Food Science, Nutrition and
Dietetics**

JANUARY-2021

CLINICAL AND THERAPEUTIC NUTRITION - II

Time: 3 Hours

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Max. Marks: 70

I Answer any SIX of the following.

(6x3=18)

1. List the types of inborn errors of metabolism.
2. Write a short note on multiple sclerosis.
3. Mention on the etiological factors for Gout.
4. Write a note on PEG and PEJ.
5. List the indications for enteral nutrition.
6. Write types of diabetes mellitus.
7. Write a short note on anorexia nervosa.

II Answer any FOUR of the following.

(4x7=28)

8. Explain the patho physiology and nutritional management of acute pancreatitis.
9. Explain the classification, causes and complications of hypertension.
10. Define cholelithiasis and cholecystitis. Explain its risk factors gallstones formed.
11. Explain the nutritional management for Parkinson's disease.
12. Give a detailed description on the enteral feeding administration and list some recent enteral formulas available.

III Answer any TWO of the following.

(2x12=24)

13. Discuss in detail about nutritional assessment for effective nutritional intervention.
14. Discuss in detail about the musculo skeletal disorders with pathophysiology, etiology, complications and goals of therapeutic nutrition.
15. Discuss in detail the administration routes and the nutrient allowances in parental nutrition with an example.

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Semester III – P.G. Examination – M.Sc Food Science ,Nutrition and Dietetics

JANUARY-2021

NUTRITIONAL BIOCHEMISTRY

Time: 3 hrs.

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Max Marks: 70

I. Answer any SIX of the following

6 × 3 = 18

1. Draw a neat and labelled diagram of Eukaryotic cell.
2. Explain the mechanism of enzyme action.
3. Draw a flow chart for classification of carbohydrate. Give an example for each.
4. Write a short note on lipoproteins.
5. What are proteins? Draw a primary structure of protein.
6. Write the fundamentals of signal transduction.

II. Answer any FOUR of the following

4 × 7 = 28

8. What is fluid mosaic model. Explain in detail.
7. Write in detail the factors affecting enzyme activity.
9. Write down the properties of fatty acids.
10. Detail out on oxidative phosphorylation.
11. Elucidate energy producing systems.
12. What is enzyme inhibition? What are factors effecting.

III. Answer any TWO of the following

2 × 12 = 24

13. Write in detail the properties and function of proteins.
14. Draw and explain kreb's cycle.
15. Write in detail the physico chemical properties of carbohydrate.

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JANUARY-2021

DIET THERAPY

Time: 3 hrs.

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Max Marks: 70

I. Answer any SIX of the following.

(6x3=18)

1. Explain on the early diagnosis for Diabetes.
2. Write on Tropical sprue
3. Nutrition support for Pancreatitis Justify
4. Write a short note on nephritis and nephrosis.
5. Mention the causes of cholelithiasis.
6. Jaundice- Explain
7. Write on the stages of chronic kidney disease and its GFR ranges.

II. Answer and FOUR of the following.

(4x7=28)

8. Write on the importance of diet in the post-operative state.
9. Enumerate on the types of Hypertension. Add a note on DASH diet
10. Explain on the causes and dietary treatment for diverticular diseases.
11. Explain on the types of kidney stones. Add a note on its dietary management.
12. How would you approach dietary intervention for a patient with symptomatic insulin resistance and high blood sugar levels?

III. Answer any TWO of the following.

(2x12=24)

13. Enumerate on the risk factors of Cardio Vascular disease. Add a note on dyslipidemia.
14. Differentiate between Hemolytic and peritoneal dialysis. Explain on the importance of minerals in the renal diet.
15. Explain Allergy under the following heads
 - i) Food Allergens
 - ii) Tests
 - iii) Dietary management.