

PH 811.3

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**St Aloysius College (Autonomous)
Mangaluru**

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

November - 2019

ADVANCED NUTRITION - II

Time: 3 Hours

Max. Marks: 70

I. Answer any SIX of the following.

(6x3=18)

1. What are the major functions of ultra-trace minerals?
2. What is xenobiotic?
3. List down the major micro minerals with sources.
4. Write the functions of niacin and pyridoxine.
5. Write the RDA for fat soluble vitamins.
6. Define detoxication.
7. What is beri-beri?

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II. Answer any FOUR of the following.

(4x7=28)

8. Write on digestion and absorption of calcium and phosphorous.
9. Explain the metabolic function of Vitamin A.
10. Explain the functions of sodium and potassium.
11. What are the sources and deficiency symptoms of B-Complex vitamins?
12. What is the role of liver and enzymes in the mechanism of detoxification?

III. Answer any TWO of the following:

(2x12=24)

13. Explain functions, absorption and interaction of the following minerals.
Iron, Molybdenum and zinc.
14. Explain the metabolic functions and deficiency of vitamin- C. Mention the food sources.
15. Discuss the functions and deficiency of Vitamin - E.

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Mangaluru
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November - 2019

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 a few feeding strategies in Alzheimer's disease.
2. Write a short note on osteoporosis.
3. Differentiate between food allergy and food intolerance.
4. Calculate the osmolarity of a parental solution.
5. Write a short note on dyslipidemia.
6. What is GSD?
7. Write a short note on the carbohydrate allowance in a parenteral formula.

II Answer any FOUR of the following.

(4x7=28)

8. Explain the nutrient composition of parenteral formula.
9. Explain the nutritional management for chronic renal failure.
10. Explain the theories of behavioral change.
11. Explain on the pathophysiology, risk factors, complications of tuberculosis and add a note on the role of nutrition therapy.
12. Counseling is a primary educational activity of the dietitian. Explain.

III Answer any TWO of the following.

(2x12=24)

13. Explain in detail the routes metabolic and clinical complications of enteral nutrition.
14. Explain in detail the management of Alcohol health disorders.
15. Explain in detail the general nutritional requirements of musculo-skeletal disorder patients.

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**Semester III – P.G. Examination – M. Sc. Food Science, Nutrition and
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November - 2019

NUTRITIONAL BIOCHEMISTRY
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Time: 3 Hours

Max. Marks: 70

I Answer any SIX of the following.

(6x3=18)

1. Classify proteins with examples.
2. Define saponification and emulsification with examples.
3. Classify carbohydrates with examples.
4. What is Phagocytosis?
5. Write and explain the structure of Maltose?
6. Write a note on Mitochondria?
7. Write a note on sub cellular organelles.

II Answer any FOUR of the following.

(4x7=28)

8. Explain Fluid Mosaic Model.
9. Determine the inter conversion of 5 hexoses.
10. Give the classification of carbohydrates with examples.
11. Elaborate on the properties of lipids.
12. What are immobilized enzymes? Discuss in detail.

III Answer any TWO of the following.

(2x12=24)

13. Discuss in detail about membrane transport.
14. Determine the chemical structure of glucose and explain its properties.
15. Explain Electron transport chain and oxidative phosphorylation.

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**Semester III – P.G. Examination – M. Sc. Food Science, Nutrition and
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November - 2019

DIET THERAPY

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Time: 3 Hours

Max. Marks: 70

I Answer any SIX of the following.

(6x3=18)

1. Write on parenteral feeding with complications in TPN.
2. Explain food allergy and food intolerance.
3. Patho genesis of Hypertension. Explain.
4. What are the causes of Peptic Ulcer?
5. Write a note on Cholecystitis and Cholelithiasis.
6. Explain the treatment for Hepatic Coma.
7. Causes of Acute Renal Failure. Explain.

II Answer any FOUR of the following.

(4x7=28)

8. Discuss on Post Operative Diets for Liver Kidney Transplantation?
9. Differentiate between celiac sprue and tropical sprue.
10. Cirrhosis of Liver- Write the Aetiology with Dietary treatment.
11. Enumerate the symptoms and Dietary modifications for Nephritis.
12. Discuss tests used in the diagnosis of Diabetes.

III Answer any TWO of the following.

(2x12=24)

13. Write a note on Dialysis. Add a note on its Dietary modification.
14. Give the dietary modifications for various cardio vascular disease.
15. Pathophysiology causes manifestation and dietary treatment for diverticular disease.
