

PH 811.4

Reg. No:

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**St Aloysius College (Autonomous)
Mangaluru**

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

August / September 2021

NUTRITION IN CRITICAL CONDITIONS AND EMERGENCIES

Time: 3 Hours

Max. Marks: 70

I Answer any SIX of the following.

(6x3=18)

1. What are the complications of nutritional support systems?
2. List the metabolic aspects in renal failure.
3. Write clinical signs in MODS.
4. Describe 'Vitamin A deficiency'
5. What features cite on cardiovascular complications?
6. How do you differentiate between hemodynamic stability and instability?
7. What indications regarding EN and TPN are administered to a burn patient?

II Answer any FOUR of the following.

(4x7=28)

8. Summarize on nutrition in communicable diseases.
9. Illustrate the GLIM criteria and explain its method of nutritional screening.
10. Depict the pathophysiology of septic spectrum.
11. Explain the nutrition assessment and nutrition care for neuro surgery.
12. Paraphrase the common nutritional problems in natural and manmade disasters.

III Answer any TWO of the following.

(2x12=24)

13. Explain in detail 'Nutritional Care Plan' for the critically ill patient.
14. Elucidate on the objective of diet therapy and MNT in trauma.
15. Discuss on the various commercial feed formulas of EN and PN.

PH 812.4

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Semester IV - P.G. Examination - M.Sc. Food Science, Nutrition and Dietetics

August / September 2021

PUBLIC HEALTH NUTRITION

Time: 3 Hours

Max. Marks: 70

I Answer any SIX of the following.

(6x3=18)

1. What do you mean by ethical considerations in food distribution strategy?
2. List the screening methods and nutritional indicators in emergency affected population.
3. Mention the factors affecting behaviour change.
4. Brief on food fortification and genetic improvement of foods.
5. What is meant by IEC? Quote its aim and objectives.
6. What are the conditions that call for nutritional rehabilitation?
7. Infer on nutrition in geriatrics.

II Answer any FOUR of the following.

(4x7=28)

8. Summarize on the impact of ICDS programme in nations perspective.
9. Classify the dimensions of mass feeding and supplementary feeding for nutritional relief.
10. Discuss on PDS in India.
11. Explain the nutritional requirements for adolescents adding a note on RDA.
12. Compare the relationship between health and nutrition. Write the critical function of a public nutritionist.

III Answer any TWO of the following.

(2x12=24)

13. Explain in detail on direct and indirect methods of assessment of nutritional status.
14. Elucidate on the complications, macro and micronutrient considerations in pregnancy and lactation.
15. Summarize on the term 'population dynamics'.

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Semester IV - P.G. Examination - M.Sc. Food Science, Nutrition and Dietetics

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NUTRACEUTICALS AND FUNCTIONAL FOODS

Time: 3 Hours

Max. Marks: 70

I Answer any SIX of the following.

(6x3=18)

1. Mention the health benefits of nutraceuticals.
2. Write a note on resistant starch.
3. Write a note on isoflavonoids.
4. Write short note on fructo-oligosaccharides.
5. Write a note on anthocyanins.
6. Write a note on Gut microbes.
7. Write a short note on antioxidant.

II Answer any FOUR of the following.

(4x7=28)

8. Explain about the stability of phytochemicals.
9. Explain the role of nutraceuticals in cholesterol management.
10. Differentiate between omega - 3 and omega -6 fatty acids.
11. Discuss prebiotic as a food ingredient.
12. Explain nutrigenomics and its relation to nutraceuticals.

III Answer any TWO of the following.

(2x12=24)

13. Discuss on the steps involved in Development of functional foods.
14. Discuss on the role of nutraceuticals in prevention of cancer and cardiovascular diseases.
15. Discuss on the health benefits of natural pigments.
