AUGUST 2012 B.Sc. OPTOMETRY FIRST YEAR PAPER V – NUTRITION

Sub. Code: 6007

Q.P. Code: 806007

Time: Three hours Maximum: 100 marks (180 Mins) Answer ALL questions in the same order.

I. Elaborate on :	Pages Time Marks (Max.)(Max.)(Max.)		
1. Explain in detail about eye diseases caused due to the	(, (,	
deficiency of vitamin A.	7	20	10
2. Write on protein energy malnutrition.	7	20	10
3. Write in detail about iron and its role in eye.	7	20	10
II. Write notes on:			
1. Dietary fiber.	4	10	5
2. Difference between incomplete and complete protein.	4	10	5
3. Supplementary food.	4	10	5
4. Functions of proteins.	4	10	5
5. Zeaxanthin.	4	10	5
6. Functions of calcium and its sources.	4	10	5
7. Menu planning.	4	10	5
8. Body mass index with interpretation.	4	10	5
III. Short Answers on:			
1. Write on Starvation.	2	4	3
2. List of water- soluble and fat –soluble vitamins.	2	4	3
3. Write on deficiency of essential fatty acids.	2	4	3
4. Write about the functions of calcium.	2	4	3
5. Define nutrients.	2	4	3
6. Define hyperlipidemia.	2	4	3
7. Define energy unit.	2	4	3
8. Write any two sources and functions of carbohydrate.	2	4	3
9. Write about anemia.	2	4	3
10. Define antioxidants with example.	2	4	3

[LC 0212]

FEBRUARY 2013 B.Sc. OPTOMETRY FIRST YEAR

PAPER V – NUTRITION

Q.P. Code: 806007

Time: Three hours Maximum: 100 marks

Answer ALL questions.

I. Elaborate on: (3X10=30)

1. Write in detail about iron and its role in eye.

- 2. Explain in detail about protein energy malnutrition.
- 3. Write in detail about vitamin A deficiency diseases related to eye.

II. Write notes on:

(8X5=40)

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- 1. Any two antioxidants.
- 2. Nutritional management of obesity.
- 3. Iodine excess and deficiency.
- 4. Functions of carbohydrates.
- 5. Write about food groups.
- 6. Functions of calcium and its sources.
- 7. Recent advances of nutrition in vision.
- 8. Measurement of energy value of food.

III. Short answers on:

(10X3=30)

- 1. What is obesity?
- 2. Define recommended daily allowance.
- 3. Write on essential fatty acids.
- 4. Write about the functions of iodine.
- 5. Define nutrients.
- 6. Define body mass index.
- 7. Define energy unit.
- 8. Define malnutrition.
- 9. What is xerophthalmia?
- 10. Define dialysis.

[LD 0212]

AUGUST 2013 B.SC. OPTOMETRY FIRST YEAR PAPER VI – NUTRITION

Sub.Code :6007

Q.P. Code: 806007

Time: Three hours Maximum: 100 marks

Answer ALL questions.

I. Elaborate on: (3X10=30)

1. The eye diseases that are caused by Vitamin A deficiency

- 2. List a few antioxidants and discuss their role in maintaining normal vision.
- 3. Food sources of iron and the role played by iron in vision.

II. Write notes on: (8X5=40)

- 1. Obesity management with nutrition.
- 2. Protein energy malnutrition.
- 3. Balanced diet
- 4. Food pyramid
- 5. Source and function of carbohydrates
- 6. Diet in Pregnancy
- 7. Role of fiber in diet
- 8. Explain menu planning.

III. Short answers on: (10X3=30)

- 1. Sources of antioxidants
- 2. Role of calcium in maintaining good health
- 3. Define Body Mass Index (BMI).
- 4. List various fat and water soluble vitamins.
- 5. The sources and functions of Carbohydrates.
- 6. Lycopene
- 7. Incomplete proteins
- 8. Polysaccharides
- 9. Free radicals
- 10. WHO definition of health

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Q.P. Code: 806007

Time: Three hours Maximum: 100 marks

Answer ALL questions.

I. Elaborate on: (3X10=30)

1. Give an account on sources, kinds and functions of proteins

- 2. Describe the source, distribution and deficiency symptoms of vitamins
- 3. Write a detail about iron and its role in eye.

II. Write notes on: (8X5=40)

- 1. Mention any five factors to be considered while planning of menu
- 2. Explain the basic four food groups
- 3. Write short note on malnutrition?
- 4. How do you prevent PEM?
- 5. Difference between macro and micro elements
- 6. Classification of amino acids
- 7. Define the units of energy and give the inter conversions
- 8. How will you estimate the energy value foods?

III. Short answers on: (10X3=30)

- 1. Dietary fiber
- 2. Sources of lipids
- 3. Nitrogen balance
- 4. Folic acid
- 5. Incomplete proteins
- 6. Two antioxidants and its role
- 7. Define the balance diet
- 8. RDA
- 9. Diabetes mellitus
- 10. List any two difference between fat and water soluble vitamins

[LF 0212]

AUGUST 2014 B.Sc. OPTOMETRY FIRST YEAR

Sub.Code :6007

PAPER V – NUTRITION

Q.P. Code: 806007

Time: Three hours Maximum: 100 marks

Answer ALL questions.

I. Elaborate on: (3X10=30)

- 1. Discuss fats and the eye.
- 2. Explain in detail about important minerals and vision.
- 3. Write antioxidants and vision.

II. Write notes on: (8X5=40)

- 1. Protein energy malnutrition and the eye.
- 2. Complete protein.
- 3. Essential fatty acids.
- 4. Functions of Vitamin A.
- 5. Energy requirement for various age groups.
- 6. Dietary fibre.
- 7. Deficiency of iron.
- 8. Write ophthalmic complications.

III. Short answers on: (10X3=30)

- 1. Food guide.
- 2. Write any 3 functions of carbohydrate.
- 3. Essential amino acids.
- 4. Write deficiency of fat.
- 5. Write some energy value of food.
- 6. Write any 3 functions of minerals.
- 7. List out sources of vitamins A.
- 8. List out micro nutrients.
- 9. Write role of vitamins B2 (Riboflavin).
- 10. What is atherosclerosis.

[LG 0215]

FEBRUARY 2015 B.Sc. OPTOMETRY FIRST YEAR

Sub.Code: 6007

PAPER V – NUTRITION

Q.P. Code: 806007

Time: Three Hours Maximum: 100 Marks

Answer ALL questions.

I. Elaborate on: $(3 \times 10 = 30)$

1. Bomb calorimeter.

- 2. Write iron and vision.
- 3. Write deficiency and excess of lipids.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Role of micro minerals.
- 2. Nutritional classification of food.
- 3. Write about Lutein and xeamanthin.
- 4. Under nutrition and over nutrition.
- 5. Iodine.
- 6. Requirements of protein.
- 7. Write basic 5 food groups.
- 8. Protein quality determination any two.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Sources of unsaturated fat.
- 2. Pyrinoderma.
- 3. What is morbid obesity?
- 4. Write any three functions of trace elements.
- 5. Write antioxidants rich food.
- 6. What is anthropometry?
- 7. Write any three functions of protein.
- 8. Write any three functions of ascorbic acid.
- 9. Define xeropthalmia.
- 10. What is free radicals? Give an example.

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PAPER V – NUTRITION

Q.P. Code: 806007

Time: Three Hours Maximum: 100 marks

Answer ALL questions

I. Elaborate on: $(3 \times 10 = 30)$

1. Explain in detail about vitamin A deficiency eye diseases.

- 2. Write about bomb calorimeter with diagram.
- 3. Discuss in detail about protein energy malnutrition.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Write a brief description about lutein and lycopene.
- 2. Mention the importance of dietary fiber.
- 3. Discuss about the impact of energy imbalance.
- 4. What is the effect of excessive intake and deficiency of fats?
- 5. Define essential and non-essential amino acids. List them.
- 6. Write a brief note on supplementary food.
- 7. Explain in detail about food groups.
- 8. Discuss briefly about menu planning.

III. Short Answers on: $(10 \times 3 = 30)$

- 1. Define balanced diet.
- 2. What are the sources and functions of carbohydrates?
- 3. Define body mass index.
- 4. How are vitamins classified? List them.
- 5. Define nutrients.
- 6. Define energy and its unit.
- 7. What are the functions of calcium?
- 8. What are essential fatty acids?
- 9. What is a complete protein?
- 10. Write any three functions of proteins with examples.

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PAPER V – NUTRITION

Q.P. Code: 806007

Time: Three Hours Maximum: 100 Marks

Answer ALL questions.

I. Elaborate on: $(3 \times 10 = 30)$

1. What is the WHO definition of health? Name the food groups. Classify carbohydrates.

- 2. Write about Vitamin A deficiency. What are the sources of Vitamin A?
- 3. What is starvation? Describe protein energy malnutrition.

II. Write notes on: $(8 \times 5 = 40)$

- 1. RDA.
- 2. Sources of calcium.
- 3. ARMD.
- 4. Omega-3-fatty acids.
- 5. Obesity.
- 6. Lipids.
- 7. Antioxidants.
- 8. Balanced diet.

III. Short answers on: $(10 \times 3 = 30)$

- 1. Iron deficiency anemia.
- 2. Methyl cobalamine.
- 3. Vitamin D.
- 4. Chylomicrons.
- 5. Calcium rich food.
- 6. Junk food.
- 7. Beverages.
- 8. Define nutrients.
- 9. Dietary fibre.
- 10. Obesity.
