

UG/3rd Sem (H)/23/(CBCS)

2023

FOOD AND NUTRITION (Honours)

Paper Code : FNTH DC-5

(Biochemistry)

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

1. Answer any *five* questions from the following : 1×5=5

~~(a) Which class of carbohydrates cannot be hydrolyzed further?~~

(b) Write any one factor that affect the α -helix structure stability of protein molecule.

~~(c) Name the major storage form of carbohydrates in animals.~~

~~(d) Name the enzyme which is responsible for the conversion of glutamate to glutamine.~~ ~~lipase~~

~~(e) What is lipolysis?~~

(f) What do you mean by zwitterion?

~~(g) Write down the full form of PER and NPU.~~

P.T.O.

(2)

(h) Mention any one difference between saturated and unsaturated fat.

2. Answer any *two* questions from the following : $5 \times 2 = 10$

(a) Write down the dietary importance of glucose.

(b) How is blood glucose level regulated? Explain.

(c) Briefly discuss 'Lock and Key model' in reference to the mechanism of enzyme action.

(d) Write a brief note on transamination. What is peptide bond? $3+2=5$

3. Answer any *one* question from the following : $10 \times 1 = 10$

(a) What is enzyme inhibition? Briefly describe about the factors that affect enzyme activity. $2+8=10$

(b) Write a brief note on ~~emulsification fat~~. Briefly describe the beta-oxidation of fatty acids with a flow chart. $3+7=10$

FOOD AND NUTRITION (Honours)

Paper Code : FNTH DC-6

(Nutrition and Phases of Life)

Full Marks : 25

Time : Two Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers

in their own words as far as practicable.

1. Answer any *five* questions from the following : $1 \times 5 = 5$

(a) What is oxidative stress?

~~(b) Why is osteoporosis common during old age?~~

~~(c) Define supplementary food.~~

~~(d) Write the energy and iron requirement for pregnant woman.~~

(e) What is the energy requirement for an adolescent girl of 16 years age?

(f) Write the name of one enzymatic and one non-enzymatic antioxidant.

(g) What do you mean by preterm baby?

~~(h) Name the nutrients which are most important for elderly.~~

protein.

P.T.O.

(2') (200)

2. Answer any *two* questions from the following :

5×2=10

- (a) Write down the dietary management of a lactating mother.
- (b) Write a short note on weaning.
- (c) Briefly discuss the physiological complications during old age.
- (d) Why fluid and electrolyte is important in the diet of athletes — Explain?

3. Answer any *one* question from the following :

10×1=10

- (a) What are the immunological and psychological benefits of breast feeding? Write a brief note on carbohydrate loading. 3+3+4=10
- (b) What are the common physiological complications occur during pregnancy? Why energy and calcium requirement is high for a school going children?

5+5=10

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FOOD AND NUTRITION (Honours)

Paper Code : FNTH DC-7

(Therapeutic Diet-I)

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

1. Answer any *five* questions from the following : 1×5=5

(a) What are the common sites of peptic-ulcer?

(b) When is tube feeding administered?

(c) What do you mean by food allergy?

(d) What is infective hepatitis?

(e) Why high amount of milk is prescribed for ulcer patient?

(f) What is irritable bowel syndrome?

(g) Which enzyme is mutated in alkaptonuria?

(h) When is constipation defined as chronic?

P.T.O.

(2)

2. Answer any two questions from the following : $5 \times 2 = 10$

(a) Define therapeutic diet. Write down the differences between tube feeding and parenteral feeding.

2+3=5

(b) What are the signs and symptoms of ulcerative colitis? Discuss the main complications of ulcerative colitis.

2+3=5

(c) How are allergies diagnosed? Write the clinical manifestation of food allergies.

3+2=5

(d) Write down the aetiology of flatulence.

3. Answer any one question from the following : $10 \times 1 = 10$

(a) What is the composition of ORS? How is the etiology of constipation categorized? Why are infants more prone to diarrhoea?

2+5+3=10

(b) Discuss the dietary management of malabsorption syndrome. Discuss its aetiology. Write down the clinical manifestation of IBS.

5+3+2=10