

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 :  $1 \times 5 = 5$

- (a) What do you mean by aldose-ketose isomerism ?
- ✓(b) Mention the clinical importance of dextran.
- ✓(c) What is polypeptide ?
- (d) State the function of hydrocarbons in lipids.
- ✓(e) What is SFA ?
- ✓(f) Write the normal blood sugar level. *80-100 mg/dl*
- ✓(g) Differentiate between coenzyme and cofactor.
- (h) What do you mean by NPU ?

P.T.O.

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

✓ (a) Define biological value and protein efficiency ratio. Write a brief note on 'beta-pleated sheet' of a protein molecule. 2+3

✓ (b) Explain the different factors that affect enzyme activity.

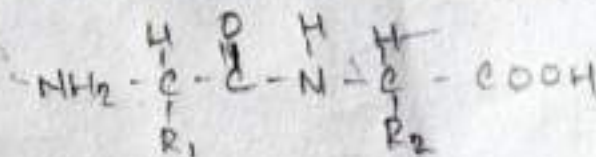
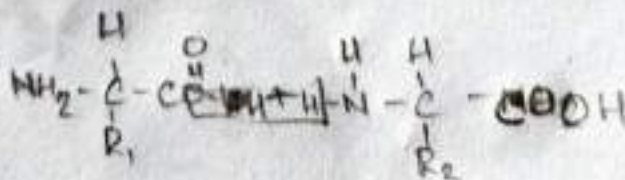
(c) What do you mean by triacylglycerol? Write any two physical as well as chemical properties of triacylglycerol. 2+3

(d) Briefly describe the payoff phase of glycolysis.

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

✓ (a) Write down the physiological functions of fat. With a suitable flow chart briefly explain the beta-oxidation of a fatty acid. 3+7

(b) Compare essential and non-essential amino acid with example. Write a brief note on amphoteric nature of an amino acid. Briefly explain the term 'transamination' and 'deamination' in reference to protein metabolism. 3+3+(2+2)





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**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 mature milk ?
- ✓(b) Write the name of any two galactagogue foods.
- ✓(c) Write any two factors that affect milk production.
- ✓(d) Why is constipation common in elderly ?
- (e) How many calories are in 100 ml breast milk ?
- ✓(f) What is weaning ?
- (g) How much additional daily protein intake is required during lactation ?
- (h) What do you mean by ergogenic aids ?

P.T.O.

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

5×2=10

- ✓ (a) Briefly discuss the nutritional requirements for an aged person.
- ✓ (b) How do you prepare baby food safely ? What are the problems occur during formula feeding ?  
2+3
- (c) Why fluid and electrolyte is important in athlete's diet – Explain ?
- (d) Write down the nutritional requirement of a high school age (14 years) child.

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

10×1=10

- ✓ (a) Discuss the dietary management of a pregnant woman as suggested by ICMR. Explain the physiological changes during pregnancy. 6+4
  - (b) 'Exclusive breast feeding promotes good health of a baby' — Justify the statement. Discuss the nutritional management of a preterm baby. 5+5
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**FOOD AND NUTRITION (Honours)**

**Paper Code : FNTH DC-7**

**[Therapeutic Diet - 1]**

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) Write any two symptoms of peptic ulcer.
- ✓(b) What do you mean by full fluid diet ?
- ✓(c) What is tube feeding ?
- ✓(d) Write any two causes of constipation.
- (e) What is meant by jaundice ?
- (f) Mention the four stages of liver cirrhosis.
- (g) What enzyme deficiency causes alkaptonuria ?
- ✓(h) Define therapeutic diet.

P.T.O.



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

(a) What are the principles for the modification of normal diet into a therapeutic diet? Explain. Differentiate between clear fluid diet and full fluid diet. 3+2

✓(b) Discuss the dietary management of diarrhoea patient.

(c) What is malabsorption syndrome? List the different possible causes of this syndrome. 2+3

✓(d) Write down the objectives of therapeutic diet. In which conditions full fluid diet is recommended and why? 2+3

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

✓(a) What is food allergy? What is the difference between food allergy and intolerance? Give symptoms of food allergies. Write a brief note on elimination diet. 2+2+3+3

(b) What is liver cirrhosis? Write down the different causes of liver cirrhosis. Explain the dietary guideline for a patient suffering from liver cirrhosis. 2+3+5

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