

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPP-1106

M.Sc. (Previous) Examination, 2022

HOME SCIENCE

(Food and Nutrition)

Paper - III

(Advanced Nutritional Biochemistry)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

2 each

1. (i) Define Saponification.

(ii) Define Haromone.

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- (iii) Define Replication.
- (iv) Denaturation of Protein.
- (v) Structure of Vitamin 'C'.
- (vi) Write working of insulin and glucagon.
- (vii) Write importance of clinical diagnosis.
- (viii) What are allosteric enzymes ?
- (ix) What is Wilson's disease ?
- (x) How ketone bodies are formed ?

Section-B

2. Explain rancidity and its types.

Or

Write classification of lipoprotein.

3. Write classification of amino acid.

Or

Write in brief about Chromatography.

4. Write biochemical role of growth hormone.

Or

Write general functions of some important minerals.

5. Write intracellular distribution of enzymes.

Or

What is Mitochondria Transport System ?

6. Write Urea cycle.

Or

Write importance of essential fatty acid.

Section-C

7. Explain types of polysaccharides and its importance in disease condition.
8. Write in detail about protein turnover.
9. Write biological role of any *five* macro or trace elements.
10. Define enzymes and factors affecting enzyme activity.
11. Write glycolysis cycle with ATP produced.