

বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

2nd Semester Examination 2022

B.F.Sc.

PAPER-BFSC-208

FOOD CHEMISTRY

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

- 1. Answer any ten questions.
 - (a) What is flavour intensifier? Give name of two such synthetic components.
 - (b) State on VLDL and HDL value and state its significance in respect to human health.
 - (c) Name four antimicrobial additives used in food preparation.
 - (d) What in NPU value? State its significance in human nutrition.

 10×2

- (e) What do you mean by essential amino acids? Name two of them for human nutrition.
- (f) State on biological oxidation.
- (g) Define oxidative phosphorylation.
- (h) What do you mean by BV digestibility coefficient?
- (i) State on the synthetic colour additive used in human food.
- (j) How to examine the quality food?
- (k) What is Browning reactions?
- (1) How many ATP is formed when I molecule of glucose used through Glycolytic pathway?
- (m)State the causes of rancidity of fat.
- (n) What is polysaccharide? Name such two poly saccharides available from seaweed.
- (o) State on non-nutritive sweeteners and its impact on human nutrition.
- **2.** Answer any *six* questions.

- (a) Write the impact of heat on denaturation of protein.
- (b) State the impact of moisture content in food materials.
- (c) Give an account on energy partitioning in the nutrition of any animal.
- (d) Write a note on the chemistry of taste in nutrition.

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- (e) Give an account on the role of different enzymes and their function in the digestion process.
- (f) Discuss the sources and role of fibre in nutrition.
- (g) State on the mechanism of oxidation process of fatty acid.
- (h) Give an account on the importance of fish protein in human nutrition.
- (i) Describe Vitamin C and its role in metabolism.
- (j) Discuss the mechanism of protein metabolism.