

The University of Burdwan
B.Sc. (Honours) Semester-III
Examination (CBCS): 2020
Subject: Nutrition
Course Code: CC - 5
Course Title: Nutritional Biochemistry

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.

Answer all *questions* as instructed

Examinees are instructed to submit the scanned copies / photographs of their answer scripts within 30 minutes after the completion of examination

F.M.-40

Time: 2hrs

1. Answer any eight questions of the following:

5×8=40

- a) Discuss the pyranose-furanose isomerism of carbohydrates with suitable diagram.
- b) How amino acids are classified depending upon their structure?
- c) Classify dietary fatty acids with example. State the role of PUFA in maintaining health.
- d) Briefly describe the role of UDP-glucose in the process of glycogenesis.
- e) State the factors affecting enzyme activity?
- f) How ketone bodies are formed due to enhanced β -oxidation of fatty acids?
- g) With suitable example show how the process of oxidative deamination differs from non-oxidative deamination.
- h) Briefly discuss the regulation of blood sugar level.
- i) Define saponification number and write down its importance.
- j) Write a short note on primary structure of protein molecule.
