



**DBJ-1603120102030800** Seat No. \_\_\_\_\_

**M. Sc. (Sem. III) (CBCS) Examination**

**June - 2022**

**Biochemistry : CBC-8**

*(Clinical & Nutritional Biochemistry)*

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

**Instruction** : Answer any **five** questions out of 10.

- 1 Answer briefly the following questions 14
- (a) Write short note on the functions of blood
  - (b) What kind of complications may occur during blood transfusion?
  - (c) How polycythemia is diagnosed?
  - (d) State pathological difference between tuberculosis and asthma.
  - (e) Explain Briefly ECG.
  - (f) How is malaria treated?
  - (g) Define term Cancer
- 2 Answer briefly the following questions : 14
- (a) Cooking increases digestibility of food. Justify.
  - (b) What are food source examples of proteins?
  - (c) What is Glycaemic load?
  - (d) Define term : Essential Amino Acids
  - (e) State the sources of Vitamin A and Vitamin D.
  - (f) Explain the anti-oxidant property of Vitamin C
  - (g) Explain: Pellagra as disease of 3Ds.
- 3 Answer the following questions : 14
- (a) Explain blood clotting cascade in detail.
  - (b) Write down physiology and life cycle of RBC.

- 4 Answer the following questions : 14
- (a) Give account on Blood Groups.
  - (b) Enlist different types of leukocytes with their function.
- 5 Answer the following questions : 14
- (a) Discuss biochemical changes and pathogenesis of hemolytic and obstructive jaundice.
  - (b) Write about the risk factors, diagnosis and treatment of diabetes mellitus.
- 6 Answer the following questions : 14
- (a) Define term: Nephrotic Syndrome. Discuss clinicopathological condition and treatment of nephrotic syndrome.
  - (b) Write a Note on Hypertension.
- 7 Answer the following questions : 14
- (a) Write a note on Glycaemic index and Glycaemic load.
  - (b) Write a note on PDCAAS and DIAAS.
- 8 Answer the following questions : 14
- (a) Write a note on unavailable carbohydrates.
  - (b) Explain about Sources, role in human body and deficiencies of Essential fatty acids.
- 9 Answer the following questions : 14
- (a) Write down about the Symptoms and causes of Kwashiorkor and Marasmus.
  - (b) Obesity: Describe about prevalence, Causes, Symptoms, management and prevention.
- 10 Answer the following questions : 14
- (a) Give an account on starvation.
  - (b) Write a short note on Synthesis, Physiological Functions and Deficiencies of Vitamin E.