JAY-16031201030800 Seat No. _____

# M. Sc. (Biochemistry) (Sem. III) (CBCS) Examination

**December - 2019**

## CBC - 8 : Clinical and Nutritional Biochemistry

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

**1** Answer briefly any **seven** of the following questions : **14**

(1) What are functions of white blood cells and palates

(2) What kinds of complication may occur during blood transfusion?

(3) What are the functions of Kidney?

(4) Define terms of carcinoma, sarcoma, melanoma, lymphoma

(5) Define Essential Amino Acids

(6) What is obesity?

(7) Write about the functions of vitamins

(8) To remain healthy we should eat local foods. Justify

(9) What is protein efficiency ratio?

(10) What is Neural tube defect (NTD)

**2** Answer any **two** of the following questions : **14**

(1) Describe in detail Extrinsic Pathways of Blood Clotting

(2) Write notes on starvation with respect to causes, medical reasons, signs and symptoms, and treatment

(3) Explain the following terms along with difference: Type 1 Insulin Dependent Daibetes Mellitus and Type 2 Non-Insulin Dependent Daibetes Mellitus

**3** (1) Enlist various laboratory tests to measure coagulation and thrombolysis. Explain any two in detail **7**

(2) Write a note on symptoms and causes of Kwashiorkor and Marasmus **7**

**OR**

(1) Enlist the various liver function tests. Explain any two in detail. **7**

(2) Explain Protein Digestibility Corrected Amino Acid Score (PDCAAS) in detail. **7**

**4** Answer the following questions : **14**

(1) Write a note on classification, functions and health benefits of non-glycemic carbohydrates

(2) Write a note on functions, deficiencies and toxicities of vitamin D

**5** Answer the following questions : (Any **Two**) **14**

(1) Write a note on physiology and life cycle of Red blood cells

(2) Write a note on glycemic index and glycemic load with respect to factors affecting glycemic index of foods

(3) Describe the sources , role and benefits of essential fatty acids

(4) Write about the Myocardial infarction. Discuss about risk factors, treatments and diagnosis.

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