



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examinations 2020

(Under CBCS Pattern)

Semester - III

Subject: PHYSIOLOGY

Paper: SEC1T

Full Marks : 40

Time : 2 Hours

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

The figures in the margin indicate full marks.

DETECTION OF FOOD ADDITIVES / ADULTERANTS

Answer any *two* questions.

2×20=40

1. What do you mean by food additives? Write down one qualitative test for identification of food additives present in margarine. Write down the process of qualitative tests for metanil yellow in turmeric. 5+7+8
2. Briefly describe the health hazards of Hg and Pb in noodles. Write the experiments for qualitative analysis of these two metals. (5+5)+10

3. Write down the chemical formula of monosodium glutamate. State the side effects of monosodium glutamate in human. How could you determine it through a test. Write down the nutritional composition of margarine. 2+5+10+3

4. Briefly describe the health hazards of food additives especially rhodamin B and chocolate brown HT in human body. Write down the qualitative test for detection of saccharin and aluminium foil in sweet foods. (6+6)+(4+4)

CLINICAL BIOCHEMISTRY

Answer any *two* questions. 2×20=40

1. Describe the method and principle of measurement of blood inorganic phosphate by Fiske Subbarow method. State the clinical significance of blood inorganic phosphate. (10+5)+5

2. Write down the Beer-Lambert's Law. Write the Nelson-Somogyi method and principle for the measurement of blood glucose. 5+(10+5)

3. Write down the principle of photolorimetry. State the protocol of measurement of serum total protein by Biuret method. State the clinical importance of measurement of serum protein. 5+10+5

4. Briefly describe the clinical significance of measurement of albumin globulin ratio and serum amylase. State the procedure of measurement of albumin-globulin ratio and serum amylase. (5+5)+(5+5)
