

(iii) Tetanus

(iv) Graves' disease

(v) SCID

(b) What are glycogen storage diseases? Describe them with an example? (10, 5)

5 (a) What is atherosclerosis? Describe the stages of Atherosclerosis.

(b) Discuss Vitamin D deficiency diseases.

(c) Explain the causes and the main symptoms of Gaucher's disease. (6, 5, 4)

6. (a) Write short notes on the following:

(i) Cushing's disease

(ii) Myasthenia gravis

(b) Explain the life cycle of Plasmodium falciparum with a suitable diagram.

(c) Explain the symptoms and preventive measures of the following diseases.

(i) Cori disease

(ii) Pellagra (6, 5, 4)
(100)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4607

J

Unique Paper Code : 2494002005

Name of the Paper : Biochemical Correlation of Diseases

Name of the Course : **B.Sc. (Hons.) Biochemistry NEP**

Semester : IV

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll. No. on the top immediately on receipt of this question paper.
2. There are 6 questions.
3. Attempt **any 4** questions.
4. All questions carry **equal** marks.
5. **Question no. 1** is compulsory.

1 (a) Define the following terms:

(i) Bacteremia

P.T.O.

(ii) Pathogenicity

(iii) Epidemiology

(b) What causes Scurvy? Elaborate on pathophysiology of Scurvy.

(c) Give full forms of the following.

(i) DOTS

(ii) BCG

(iii) SLE

(iv) COVID

(v) SCID

(vi) NIDDM (6, 3, 6)

2. (a) Give the Biochemical basis of the following diseases.

(i) Alkaptonuria

(ii) Beri-Beri

(iii) Kala Azar

(iv) Graves' disease

(v) Polio

(b) Identify the following:

(i) Autoimmune disease where joints have inflammation and pain.

(ii) A disease due to lack of folic acid

(iii) Bulging eyes is a symptom of which disease

(iv) Casuative agent of sleeping sickness.

(v) Swelling of the salivary glands is a symptom of which disease (10, 5)

3. (a) Differentiate between the following:

(i) Rickets and Polio

(ii) Kwashiorkor and Marasmus

(iii) Exotoxin and endotoxin

(b) (i) Why is it difficult to get effective vaccine for HIV?

(ii) Discuss the diagnosis of TB? (9,6)

4. (a) What are the causes and symptoms of the following diseases?

(i) Sickle cell anemia

(ii) GSD