

**DIPLOMA IN CLINICAL PATHOLOGY (DCP) EXAMINATION
BIOCHEMISTRY AND MICROBIOLOGY**

Q.P. Code :343009

Time: Three Hours

Maximum : 100 Marks

(ANSWER SECTION A & B SEPARATELY)

**SECTION A
(BIOCHEMISTRY)**

I. Elaborate on: **(1 x 15 = 15)**

1. What is the reference range for serum calcium level? Write in detail about the homeostatic mechanisms involved in maintaining the normal calcium level. Add a note on its deficiency disorders.

II. Write notes on: **(5 x 7 = 35)**

1. What are bile acids and bile pigments? Add a note on tests done to detect bile salts and bile pigments in the urine.
2. Lipoproteins.
3. Diabetic ketoacidosis.
4. Serum protein electrophoresis.
5. Causes of hemoglobinuria. How will you test for hemoglobin in the urine?

**SECTION B
(MICROBIOLOGY)**

I. Elaborate on: **(1 x 15 = 15)**

1. Discuss the pathogenesis, laboratory diagnosis and prevention of Hepatitis B virus infection.

II. Write notes on: **(5 x 7 = 35)**

1. ELISA.
2. Laboratory diagnosis of syphilis.
3. Extraintestinal amoebiasis.
4. Dermatophytes.
5. Moist heat methods of sterilization.
