

**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. Write in detail about the liver function tests and their clinical significance.

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

1. Metabolism of iron in the human body.
2. What are ketone bodies? What are the causes of ketosis and test done to detect ketone bodies in urine?
3. Normal reference range for serum cholesterol. What are the functions of Cholesterol?
4. Oral glucose tolerance test- procedure and interpretation of results.
5. Hyperuricemia.

**SECTION - B**  
**(MICROBIOLOGY)**

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

1. Write in detail the cultural characteristics, pathogenesis, laboratory diagnosis and prophylaxis of Vibrio cholera.

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

1. Polymerase chain reaction.
2. Laboratory diagnosis of Polio.
3. Hot air oven.
4. Penicillium.
5. Toxoplasma gondii.

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