

**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**(DCP 0522)**

**MAY 2022**

**Sub. Code: 3009**

**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 are ketone bodies? How are they formed and utilized? Add a note on ketosis and biochemical investigations for it?

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

1. Isoenzymes with examples.
2. Phenyl ketonuria.
3. Biochemical functions of Vitamin – C.
4. Serum Potassium.
5. Role of kidney in maintenance of pH.

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

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

1. Enumerate the diseases transmitted by blood transfusion. Describe in detail about the life cycle, pathogenesis and Lab. Diagnosis of Malaria.

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

1. Write short notes on the function of MALT in immunity.
2. Recombinant technique and its uses.
3. Short note on pathogenesis and Lab diagnosis of Gonorrhoea.
4. Discuss about the preventive measures of Covid – 19 infection.
5. Short notes on Fungus used as bioweapon.

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