

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

(DCP 1022)

OCTOBER 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 is kernicterus? Write an essay on how Bilirubin is synthesized and degraded. Add a note on different types of icterus and biochemical investigations for it.

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

1. Glucose transporters.
2. Hyper Ammonemia.
3. Rickets.
4. Metabolic alkalosis.
5. Xeroderma pigmentosa.

**SECTION - B
(MICROBIOLOGY)**

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

1. Describe the morphology, pathogenesis, Lab diagnosis of Rabies. Add a note on pre and post prophylaxis.

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

1. Nutrient agar.
2. PCR.
3. Lab diagnosis of Brucellosis.
4. Rickettsia tsutsugamushi.
5. Lab diagnosis of Entamoeba histolytica.
