

**P.G. Diploma Supplementary Examinations in Clinical Pathology
(DCP) October 2019**

Paper III – Clinical Biochemistry and Basic Microbiology

Time: 3 hrs

Max marks:100

- **Answer all questions**
- **Draw diagram wherever necessary**
- **Write SECTION A and SECTION B in separate answer books (32 pages). Do not mix up questions from Section A and Section B**

QP Code:103177

SECTION A – Biochemistry

Marks: 50

Essay: (15)

1. Describe in detail the laboratory workup for type I and type II diabetes mellitus

Short notes: (7x5=35)

2. High precision liquid chromatography and its applications
3. Sample rejection criteria
4. Biochemical analysis of cerebrospinal fluid
5. External quality assessment scheme
6. Flame photometry
7. Lipoproteins
8. Clinical signification of isoenzymes

QP Code: 104177

SECTION B – Microbiology

Marks: 50

Essay: (15)

1. Discuss the pathogenesis and laboratory diagnosis of escherichia coli infections

Short notes: (7x5=35)

2. Discuss bacterial growth curve. Add a note on factors affecting bacterial growth
3. Laminar air flow work station
4. Widal test and its interpretation
5. WHO approved hand wash technique
6. Cryptosporidiosis
7. Cell mediated immunity
8. Discuss ova and cysts in stools
