

**P.G. Diploma Supplementary Examinations in Clinical Pathology  
(DCP) December 2020  
Paper III – Clinical Biochemistry and Basic Microbiology**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts 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 the procedure of internal quality control in clinical biochemistry laboratory. Explain the method of plotting Levey Jennings chart and its significance. Add a note on resolution of outliers.

**Short notes:**

**(7x5=35)**

2. Renal function tests
3. Porphyrrias
4. Principle of dialysis
5. Cerebrospinal fluid analysis
6. Polyunsaturated fatty acids and their significance
7. Test to detect reducing sugars in the urine
8. Hyperbilirubinuria

**QP Code: 104177**

**SECTION B – Microbiology**

**Marks: 50**

**Essay:**

**(15)**

1. Enlist the sexually transmitted diseases. Describe in detail the morphology, pathogenesis and lab diagnosis of HIV.

**Short notes:**

**(7x5=35)**

2. Teratogenic infections
3. Aseptic meningitis
4. Antibiotic sensitivity testing
5. Principle and uses of immunofluorescence assay
6. Lab diagnosis of kala azar
7. Moist heat methods of sterilisation
8. Significant bacteriuria