

2021

MICROBIOLOGY — HONOURS — PRACTICAL

Paper : CC-13P

Full Marks : 30

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. (a) Write down the principle of human blood group identification by heme agglutination method.
(b) Fill up the blanks in the following table and explain your answer in each case:

Test	Genotype(s)	Blood type	Antigens on RBC	Serum antibodies	Agglutination with antisera A/B
1		A			
2			B		
3				Neither	
4					No reaction

4+(4+4)

2. (a) Write down the principle of immunodiffusion assay by Ouchterlony method.
(b) Comment on the similarity/dissimilarity between antigen pairs from the given images/diagrams of pattern of precipitin lines obtained in Ouchterlony immunodiffusion assay.
(c) Explain your answer in each case. 3+2+3

or,

3. (a) Write down the principle of immunoelectrophoresis experiment.
(b) Characterize antibodies from the given image/diagram showing pattern of precipitin line(s) obtained in immunoelectrophoresis assay.
(c) Explain your answer. 4+2+2

4. Viva voce 5

5. Laboratory Notebook 5
