

**2020**

**MICROBIOLOGY — HONOURS — PRACTICAL**

**Paper : CC-2P**

**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 :
- (i) Principle and
  - (ii) Procedure of Gram Staining.
- (b) Note the sample number given in your answer script and identify—
- (i) Gram character with proper reasons
  - (ii) General cell morphology and cellular arrangements. (4+2)+(3+2+2)
2. (a) Write down :
- (i) Principle and
  - (ii) Procedure of capsule staining by negative staining method.
- (b) Comment on the advantages and disadvantages of negative staining method. 3+2+2
- Or,**
3. (a) Write down :
- (i) Principle and
  - (ii) Procedure of endospore staining method.
- (b) Comment on the advantages and disadvantages of endospore staining method. 3+2+2
4. Laboratory Notebook. 5
5. Viva voce. 5
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