

P. Pages : 3
Time : Three Hours



Max. Marks : 75

20x1
=20

- P.T.O

- 2

- 2. Solve any two.** **10x2**
=20
- a) Explain various methods for isolation pure culture of bacteria.
 - b) Define & classify sterilization method. Discuss principle, working and application of Autoclave.
 - c) Write in detail about the construction and design of aseptic area.

- 3. Solve any seven.** **5x7**
=35
- a) Write in detail about contribution of Louis Pasteur in the field of microbiology.
 - b) Differentiate between dark field & phase contrast microscopy.
 - c) Explain various sources of contamination in an aseptic area.
 - d) Write a note on Gram staining.
 - e) Describe lytic growth cycle of bacteriophage
 - f) Define disinfectant. Add a note on factors affecting disinfectant action.
 - g) Explain in short factors affecting microbial spoilage.
 - h) Write a note on cultivation of fungi.
 - i) How will you perform assay of antibiotics by cup plate method.
