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Write principle of sterility testing.

(g) What are the methods to prevent contamination in aseptic area ?

What are hypersensitivity reactions? Describe types of hypersensitivity reactions.

- (a) What are sterilisation indicators ? Explain their different 3.
  - (b) Comment on laminar air flow unit.
- Give a detailed account of antigen-antibody reactions.

- (a) Describe the method of preparation of diphtheria
  - (b) Write a note on tuberculin as diagnostic agent. 7
- (a) Describe the design of aseptic area with flow chart.
  - (b) Give the chemical classification of disinfectants. 7
- 7. Write short notes on (any 3) :-
  - (a) Phenol coefficient test.
  - (b) Shick test.
  - (c) Sera preparations

(d) Types of immunity. 5×3=15

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## B. Pharm. Fourth Semester (C.B.S.) Examination PHARMACEUTICAL MICROBIOLOGY AND IMMUNOLOGY-II

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Paper-5

(4-T-5)

Time-Three Hours]

[Full Marks-80

- N.B. :— (1) Question No. 1 is compulsory.
  - (2) Solve any FOUR questions from the remaining.
  - (3) Draw neat labeled diagram wherever necessary
- 1. Solve the following (any 5):-
  - (a) Differentiate between exotoxins and endotoxins.
  - (b) Give mechanism of action of thermal method of sterilisation.
  - (c) Explain the term Z-value and D value.
  - (d) What are disinfectants? Give the classification and ideal properties of disinfectants.
  - (e) Comment on microbial flora of human body.

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