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B.Pharm. Fourth Semester (C.B.S.) Examination PHARMACEUTICAL MICROBIOLOGY AND IMMUNOLOGY—II Paper—5 (4 T 5)

Time: Three Hours] [Full Marks: 80

N.B. :- (1) Question No. 1 is compulsory.

- Solve any FOUR questions from the remaining.
- Draw neat labelled diagram wherever necessary.
- Solve the following (any FIVE):
 - (a) Explain D value and Z value.
 - (b) Discuss the method of evaluation of disinfectant by Rideal Walker Test.
 - (c) Explain inflammation and defense mechanism of host,
 - (d) Write in short about laminar airflow unit.
 - (e) Discuss the tuberculin test.
 - (f) Give the method of preparation of tetanus toxoid.
 - (g) Explain the compliment proteins.

5×4=20

Define antigen and antibodies and give a detailed account of various antigen antibody reactions.

(a) Define hypersensitivity and explain its types in detail.

10

15

(b) Comment on sterility testing of pharmaceutical products as per I.P.

5

- Discuss the methods of preparation of :
 - (a) BCG vaccine
 - (b) Smallpox vaccine
 - (c) DPT vaccine. 15

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- Define sterilisation. Discuss the various methods of sterilisation used in pharmaceutical industry with their advantages and limitations. 15
- Differentiate between:
 - (a) Vaccines and Sera
 - (b) Endotoxins and Exotoxins
 - (c) Active immunity and Passive immunity.

15

- Write short notes on (any two):
 - (a) Sterilisation indicators
 - (b) Sources of contamination in aseptic area
 - www.FirstRanker.com (c) Disinfectants. 15

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