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FACULTY OF PHARMACY

Pharm. D II-Year (6 YDC) (Main & Backlog) Examination, August 2016

Subject: Pharmaceutical Microbiology

Time: 3 Hrs Max. Marks: 70

Note: Answer all questions from Part - A and answer any five questions from Part-B.

$PART - A (10 \times 2 = 20 Marks)$

- 1 What are spirochetes?
- 2 Define Disinfection and Disinfectants.
- 3 What is Mckonkey's Agar media.
- 4 Write abt the chemical nat ure of antigens.
- 5 What do y mean by Booster dose?
- 6 Write abt negative staining and its applications.
- 7 What is endo toxin give examples?
- 8 Explain the term phagocytosis with examples.

11 (a) Describe the history and development of microbiology.

- 9 Write abt Indole test and its importance.
- 10 What is Widal test write its significance?

$PART - B (5 \times 10 = 50 Marks)$

	(b) Discuss the importance of microbes in medical microbiology.	(5)
12	(a) Explain the physical conditions required for the growth of bacteria.(b) Write a note on cultivation of anaerobic bacteria.	(6) (4)
13	(a) Describe the general methods of classification for bacteria.(b) Explain the techniques used in bacterial and viral enumeration.	(5) (5)
14	(a) Discuss varis methods of sterilization for pharmaceutical products.(b) Discuss in brief validation of sterilization process.	(6) (4)
15	(a) What are disinfectants? Explain the mode of action of common disinfectants.(b) Discuss in detail any one popular evaluation test for disinfectants.	(5) (5)
16	Give a brief accnt on (a) blotting techniques. (b) PCR.	(6) (4)
17	(a) Write an essay on microbiological assays and discuss in detail the bioparameters controlling the microbiological assays.(b) Describe the process of standardization of vaccines.	(6) (4)
18	(a) Explain artificial immunity and how is it different from natural immunity.(b) Describe the different lab diagnostic tests and treatment for syphilis.	(5) (5)
